

ALMANAC XXXVII TRANSITS VISIBLE FROM EARTH IN BCE

The almanac XXXVII contains a list of transits visible from Earth from the 125th millennium BCE to the 1st millennium BCE.

During the period of 250 000 years, the total number of transits visible from Earth is 43 504 transits visible from Earth (40 540 transits of Mercury, 2 964 transits of Venus).

125TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 125th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-124998-03-12 00:01 J	-43934026.58	-43934026.50	-43934026.42	0.2779	0.1794		
Mercury	-124995-09-09 09:51 J	-43932749.19	-43932749.09	-43932748.99	0.2561	0.1971		
Mercury	-124991-03-04 21:23 J	-43931476.72	-43931476.61	-43931476.50	0.2779	0.0282		
Venus	-124989-06-27 17:18 J	-43930630.93	-43930630.78	-43930630.63	0.2619	0.0767		
Mercury	-124988-08-31 21:23 J	-43930200.75	-43930200.61	-43930200.48	0.2561	0.1423		
Mercury	-124985-03-13 18:30 J	-43929275.77	-43929275.73	-43929275.69	0.2778	0.2529		
Mercury	-124984-02-25 18:44 J	-43928926.77	-43928926.72	-43928926.66	0.2779	0.2322		
Venus	-124981-06-25 12:01 J	-43927711.10	-43927711.00	-43927710.91	0.2623	0.2079		
Mercury	-124978-03-07 15:51 J	-43926725.95	-43926725.84	-43926725.74	0.2779	0.0463		
Mercury	-124975-09-04 03:51 J	-43925449.50	-43925449.34	-43925449.18	0.2561	0.0219		
Mercury	-124971-02-28 13:13 J	-43924176.04	-43924175.95	-43924175.86	0.2779	0.1603		
Mercury	-124965-03-09 10:20 J	-43921975.17	-43921975.07	-43921974.97	0.2779	0.1190		
Mercury	-124962-09-07 10:06 J	-43920698.23	-43920698.08	-43920697.93	0.2561	0.0990		
Mercury	-124958-03-03 07:42 J	-43919425.28	-43919425.18	-43919425.08	0.2780	0.0877		
Mercury	-124955-08-29 21:23 J	-43918149.66	-43918149.61	-43918149.55	0.2561	0.2413		
Mercury	-124952-03-12 04:49 J	-43917224.38	-43917224.30	-43917224.22	0.2779	0.1924		
Mercury	-124949-09-09 16:20 J	-43915946.90	-43915946.82	-43915946.74	0.2561	0.2177		
Mercury	-124945-03-05 02:11 J	-43914674.52	-43914674.41	-43914674.30	0.2780	0.0147		
Mercury	-124942-09-02 03:51 J	-43913398.48	-43913398.34	-43913398.19	0.2561	0.1210		
Mercury	-124939-03-14 23:32 J	-43912473.55	-43912473.52	-43912473.50	0.2778	0.2661		
Mercury	-124938-02-26 23:47 J	-43912124.58	-43912124.51	-43912124.45	0.2779	0.2197		
Mercury	-124932-03-07 20:39 J	-43909923.75	-43909923.64	-43909923.53	0.2779	0.0585		

Mercury -124929-09-04 10:20 J -43908647.23 -43908647.07 -43908646.91 0.2561 0.0011

Mercury -124925-02-29 18:15 J -43907373.83 -43907373.74 -43907373.65 0.2779 0.1476

Mercury -124919-03-10 15:08 J -43905172.96 -43905172.87 -43905172.77 0.2779 0.1319

Mercury -124916-09-07 16:49 J -43903895.95 -43903895.80 -43903895.66 0.2561 0.1203

Mercury -124912-03-03 12:44 J -43902623.08 -43902622.97 -43902622.87 0.2780 0.0755

Mercury -124909-08-30 04:06 J -43901347.41 -43901347.33 -43901347.25 0.2561 0.2203

Mercury -124906-03-13 09:51 J -43900422.17 -43900422.09 -43900422.02 0.2779 0.2057

Mercury -124903-09-10 23:03 J -43899144.60 -43899144.54 -43899144.49 0.2561 0.2392

Mercury -124899-03-06 07:13 J -43897872.31 -43897872.20 -43897872.10 0.2780 0.0104

Mercury -124896-09-02 10:35 J -43896596.20 -43896596.06 -43896595.91 0.2561 0.0993

Mercury -124892-02-27 04:35 J -43895322.38 -43895322.31 -43895322.24 0.2779 0.2074

Mercury -124886-03-09 01:42 J -43893121.54 -43893121.43 -43893121.33 0.2780 0.0721

Venus -124883-01-04 05:18 J -43892089.44 -43892089.28 -43892089.12 0.2718 0.0579

Mercury -124883-09-05 17:03 J -43891844.95 -43891844.79 -43891844.63 0.2561 0.0219

Mercury -124879-03-01 23:03 J -43890571.63 -43890571.54 -43890571.44 0.2779 0.1351

Mercury -124873-03-10 20:11 J -43888370.75 -43888370.66 -43888370.57 0.2779 0.1450

Mercury -124870-09-08 23:18 J -43887093.66 -43887093.53 -43887093.39 0.2561 0.1418

Mercury -124866-03-04 17:32 J -43885820.88 -43885820.77 -43885820.66 0.2780 0.0622

Mercury -124863-08-31 10:49 J -43884545.15 -43884545.05 -43884544.95 0.2561 0.1989

Mercury -124860-03-13 14:39 J -43883619.95 -43883619.89 -43883619.82 0.2778 0.2185

Mercury -124859-02-25 15:08 J -43883270.90 -43883270.87 -43883270.85 0.2778 0.2669

Mercury -124853-03-06 12:01 J -43881070.11 -43881070.00 -43881069.89 0.2780 0.0112

Mercury -124850-09-03 17:18 J -43879793.93 -43879793.78 -43879793.63 0.2561 0.0781

Mercury -124846-02-28 09:37 J -43878520.18 -43878520.10 -43878520.03 0.2779 0.1949

Mercury -124840-03-09 06:30 J -43876319.33 -43876319.23 -43876319.13 0.2780 0.0844

Mercury -124837-09-05 23:47 J -43875042.67 -43875042.51 -43875042.35 0.2561 0.0432

Mercury -124833-03-02 04:06 J -43873769.43 -43873769.33 -43873769.24 0.2779 0.1229

Mercury -124827-03-12 00:59 J -43871568.55 -43871568.46 -43871568.37 0.2779 0.1579

Mercury -124824-09-09 06:01 J -43870291.37 -43870291.25 -43870291.13 0.2561 0.1632

Mercury -124820-03-04 22:20 J -43869018.67 -43869018.57 -43869018.46 0.2780 0.0505

Mercury -124817-08-31 17:18 J -43867742.89 -43867742.78 -43867742.66 0.2561 0.1782

Mercury -124814-03-14 19:27 J -43866817.74 -43866817.69 -43866817.63 0.2779 0.2318

Mercury -124813-02-26 19:56 J -43866468.71 -43866468.67 -43866468.63 0.2779 0.2548

Mercury -124807-03-07 16:49 J -43864267.90 -43864267.80 -43864267.69 0.2780 0.0263

Mercury -124804-09-04 00:01 J -43862991.66 -43862991.50 -43862991.35 0.2561 0.0569

Mercury -124800-02-28 14:25 J -43861717.98 -43861717.90 -43861717.82 0.2779 0.1825

Mercury -124794-03-10 11:32 J -43859517.13 -43859517.02 -43859516.92 0.2780 0.0981

Mercury -124791-09-07 06:15 J -43858240.39 -43858240.24 -43858240.08 0.2561 0.0646

Mercury -124787-03-03 08:54 J -43856967.23 -43856967.13 -43856967.03 0.2780 0.1099

Mercury -124781-03-12 06:01 J -43854766.34 -43854766.25 -43854766.17 0.2779 0.1712

Mercury -124778-09-10 12:30 J -43853489.09 -43853488.98 -43853488.87 0.2561 0.1841

Mercury -124774-03-06 03:23 J -43852216.47 -43852216.36 -43852216.26 0.2780 0.0374

Mercury -124771-09-02 00:01 J -43850940.63 -43850940.50 -43850940.37 0.2561 0.1570

Mercury -124768-03-15 00:30 J -43850015.53 -43850015.48 -43850015.43 0.2778 0.2447

Mercury -124767-02-27 00:44 J -43849666.52 -43849666.47 -43849666.41 0.2779 0.2428

Mercury -124761-03-07 21:51 J -43847465.70 -43847465.59 -43847465.48 0.2780 0.0372

Mercury -124758-09-05 06:30 J -43846189.39 -43846189.23 -43846189.07 0.2560 0.0358

Mercury -124754-03-01 19:13 J -43844915.78 -43844915.70 -43844915.61 0.2779 0.1703

Mercury -124748-03-10 16:20 J -43842714.92 -43842714.82 -43842714.72 0.2779 0.1103

Venus -124746-06-28 22:35 J -43841874.70 -43841874.56 -43841874.42 0.2621 0.1206

Mercury -124745-09-07 12:59 J -43841438.12 -43841437.96 -43841437.81 0.2560 0.0855

Mercury -124741-03-03 13:42 J -43840165.03 -43840164.93 -43840164.83 0.2780 0.0973

Venus -124738-06-26 16:49 J -43838954.92 -43838954.80 -43838954.68 0.2625 0.1666

Mercury -124735-03-13 10:49 J -43837964.13 -43837964.05 -43837963.97 0.2779 0.1839

Mercury -124732-09-10 19:13 J -43836686.79 -43836686.70 -43836686.61 0.2561 0.2054

Mercury -124728-03-06 08:11 J -43835414.27 -43835414.16 -43835414.05 0.2780 0.0243

Mercury -124725-09-02 06:44 J -43834138.36 -43834138.22 -43834138.09 0.2561 0.1356

Mercury -124722-03-16 05:18 J -43833213.31 -43833213.28 -43833213.24 0.2778 0.2581

Mercury -124721-02-28 05:47 J -43832864.32 -43832864.26 -43832864.20 0.2779 0.2301

Mercury -124715-03-09 02:39 J -43830663.49 -43830663.39 -43830663.28 0.2780 0.0501

Mercury -124712-09-05 13:13 J -43829387.11 -43829386.95 -43829386.79 0.2560 0.0144

Mercury -124708-03-02 00:15 J -43828113.58 -43828113.49 -43828113.41 0.2779 0.1579

Mercury -124702-03-11 21:08 J -43825912.71 -43825912.62 -43825912.52 0.2779 0.1236

Mercury -124699-09-08 19:27 J -43824635.83 -43824635.69 -43824635.54 0.2561 0.1068

Mercury -124695-03-04 18:44 J -43823362.83 -43823362.72 -43823362.62 0.2780 0.0856

Mercury -124692-08-31 06:44 J -43822087.28 -43822087.22 -43822087.16 0.2561 0.2355

Mercury -124689-03-13 15:51 J -43821161.92 -43821161.84 -43821161.77 0.2779 0.1974

Mercury -124686-09-12 01:42 J -43819884.50 -43819884.43 -43819884.36 0.2561 0.2264

Mercury -124682-03-07 12:59 J -43818612.06 -43818611.96 -43818611.85 0.2780 0.0166

Mercury -124679-09-03 13:13 J -43817336.09 -43817335.95 -43817335.80 0.2560 0.1144

Mercury -124676-03-16 10:20 J -43816411.09 -43816411.07 -43816411.05 0.2778 0.2712

Mercury -124675-02-28 10:35 J -43816062.12 -43816062.06 -43816061.99 0.2779 0.2176

Mercury -124669-03-09 07:42 J -43813861.29 -43813861.18 -43813861.08 0.2780 0.0637

Mercury -124666-09-06 19:42 J -43812584.84 -43812584.68 -43812584.52 0.2560 0.0076

Mercury -124662-03-03 05:03 J -43811311.38 -43811311.29 -43811311.20 0.2780 0.1448

Mercury -124656-03-12 02:11 J -43809110.51 -43809110.41 -43809110.32 0.2780 0.1365

Mercury -124653-09-09 02:11 J -43807833.55 -43807833.41 -43807833.27 0.2560 0.1282

Mercury -124649-03-04 23:32 J -43806560.62 -43806560.52 -43806560.42 0.2780 0.0718

Mercury -124646-09-01 13:27 J -43805285.02 -43805284.94 -43805284.85 0.2561 0.2143

Mercury -124643-03-14 20:39 J -43804359.71 -43804359.64 -43804359.57 0.2779 0.2102

Mercury -124642-02-26 21:08 J -43804010.62 -43804010.62 -43804010.62 0.2778 0.2775

Venus -124640-01-04 02:39 J -43803333.55 -43803333.39 -43803333.24 0.2715 0.0830

Mercury -124640-09-12 08:25 J -43803082.19 -43803082.15 -43803082.11 0.2561 0.2478

Mercury -124636-03-07 18:01 J -43801809.86 -43801809.75 -43801809.64 0.2780 0.0019

Mercury -124633-09-03 19:56 J -43800533.82 -43800533.67 -43800533.52 0.2561 0.0927

Mercury -124629-02-29 15:37 J -43799259.93 -43799259.85 -43799259.78 0.2779 0.2052

Mercury -124623-03-10 12:30 J -43797059.08 -43797058.98 -43797058.88 0.2780 0.0756

Mercury -124620-09-07 02:25 J -43795782.56 -43795782.40 -43795782.24 0.2560 0.0292

Mercury -124616-03-03 10:06 J -43794509.18 -43794509.08 -43794508.99 0.2780 0.1326

Mercury -124610-03-13 06:59 J -43792308.30 -43792308.21 -43792308.12 0.2779 0.1496

Mercury -124607-09-10 08:39 J -43791031.27 -43791031.14 -43791031.01 0.2561 0.1495

Mercury -124603-03-06 04:20 J -43789758.42 -43789758.32 -43789758.21 0.2780 0.0599

Mercury -124600-09-01 20:11 J -43788482.76 -43788482.66 -43788482.55 0.2561 0.1928

Mercury -124597-03-15 01:27 J -43787557.50 -43787557.44 -43787557.37 0.2779 0.2238

Mercury -124596-02-27 01:56 J -43787208.45 -43787208.42 -43787208.39 0.2778 0.2652

Mercury -124590-03-08 22:49 J -43785007.65 -43785007.55 -43785007.44 0.2780 0.0173

Mercury -124587-09-05 02:39 J -43783731.55 -43783731.39 -43783731.24 0.2560 0.0713

Mercury -124583-03-01 20:25 J -43782457.73 -43782457.65 -43782457.57 0.2779 0.1925

Mercury -124577-03-10 17:18 J -43780256.88 -43780256.78 -43780256.67 0.2780 0.0889

Mercury -124574-09-08 08:54 J -43778980.28 -43778980.13 -43778979.97 0.2560 0.0505

Mercury -124570-03-04 14:54 J -43777706.98 -43777706.88 -43777706.78 0.2780 0.1194

Mercury -124564-03-13 11:47 J -43775506.09 -43775506.01 -43775505.92 0.2780 0.1628

Mercury -124561-09-10 15:23 J -43774228.98 -43774228.86 -43774228.74 0.2560 0.1711

Mercury -124557-03-06 09:23 J -43772956.22 -43772956.11 -43772956.00 0.2780 0.0462

Mercury -124554-09-03 02:54 J -43771680.50 -43771680.38 -43771680.26 0.2561 0.1714

Mercury -124551-03-16 06:30 J -43770755.29 -43770755.23 -43770755.18 0.2779 0.2366

Mercury -124550-02-28 06:59 J -43770406.26 -43770406.21 -43770406.17 0.2779 0.2529

Mercury -124544-03-09 03:51 J -43768205.45 -43768205.34 -43768205.23 0.2780 0.0280

Mercury -124541-09-05 09:23 J -43766929.27 -43766929.11 -43766928.95 0.2560 0.0495

Mercury -124537-03-02 01:13 J -43765655.53 -43765655.45 -43765655.36 0.2779 0.1802

Mercury -124531-03-11 22:20 J -43763454.67 -43763454.57 -43763454.47 0.2780 0.1019

Mercury -124528-09-08 15:37 J -43762178.00 -43762177.85 -43762177.69 0.2560 0.0719

Mercury -124524-03-04 19:42 J -43760904.78 -43760904.68 -43760904.58 0.2780 0.1071

Mercury -124518-03-14 16:49 J -43758703.88 -43758703.80 -43758703.72 0.2780 0.1756

Mercury -124515-09-11 21:51 J -43757426.69 -43757426.59 -43757426.48 0.2561 0.1925

Mercury -124511-03-07 14:11 J -43756154.02 -43756153.91 -43756153.80 0.2780 0.0337

Mercury -124508-09-03 09:23 J -43754878.24 -43754878.11 -43754877.98 0.2560 0.1501

Mercury -124505-03-16 11:18 J -43753953.07 -43753953.03 -43753952.98 0.2779 0.2499

Mercury -124504-02-28 11:47 J -43753604.06 -43753604.01 -43753603.96 0.2779 0.2403

Venus -124503-06-29 03:23 J -43753118.49 -43753118.36 -43753118.24 0.2624 0.1610

Mercury -124498-03-10 08:39 J -43751403.25 -43751403.14 -43751403.03 0.2780 0.0408

Venus -124495-06-26 21:51 J -43750198.72 -43750198.59 -43750198.45 0.2628 0.1260

Mercury -124495-09-06 15:51 J -43750127.00 -43750126.84 -43750126.68 0.2560 0.0286

Mercury -124491-03-03 06:15 J -43748853.33 -43748853.24 -43748853.16 0.2779 0.1673

Mercury -124485-03-12 03:08 J -43746652.47 -43746652.37 -43746652.27 0.2780 0.1148

Mercury -124482-09-09 22:20 J -43745375.72 -43745375.57 -43745375.42 0.2560 0.0934

Mercury -124478-03-06 00:44 J -43744102.58 -43744102.47 -43744102.37 0.2780 0.0944

Mercury -124475-09-01 09:37 J -43742827.13 -43742827.10 -43742827.08 0.2561 0.2510

Mercury -124472-03-14 21:37 J -43741901.67 -43741901.60 -43741901.52 0.2780 0.1892

Mercury -124469-09-12 04:35 J -43740624.39 -43740624.31 -43740624.22 0.2560 0.2141

Mercury -124465-03-07 19:13 J -43739351.81 -43739351.70 -43739351.60 0.2780 0.0227

Mercury -124462-09-04 16:06 J -43738075.97 -43738075.83 -43738075.69 0.2560 0.1290

Mercury -124459-03-17 16:20 J -43737150.85 -43737150.82 -43737150.79 0.2779 0.2631

Mercury -124458-03-01 16:35 J -43736801.87 -43736801.81 -43736801.75 0.2779 0.2279

Mercury -124452-03-10 13:42 J -43734601.04 -43734600.93 -43734600.83 0.2780 0.0548

Mercury -124449-09-06 22:35 J -43733324.72 -43733324.56 -43733324.40 0.2560 0.0067

Mercury -124445-03-03 11:03 J -43732051.13 -43732051.04 -43732050.95 0.2780 0.1548

Mercury -124439-03-13 08:11 J -43729850.26 -43729850.16 -43729850.07 0.2780 0.1282

Mercury -124436-09-10 04:49 J -43728573.44 -43728573.30 -43728573.15 0.2560 0.1151

Mercury -124432-03-06 05:32 J -43727300.37 -43727300.27 -43727300.17 0.2780 0.0812

Mercury -124429-09-01 16:06 J -43726024.89 -43726024.83 -43726024.76 0.2561 0.2295

Mercury -124426-03-16 02:39 J -43725099.46 -43725099.39 -43725099.32 0.2780 0.2022

Mercury -124423-09-13 11:18 J -43723822.09 -43723822.03 -43723821.97 0.2561 0.2356

Mercury -124419-03-09 00:01 J -43722549.61 -43722549.50 -43722549.39 0.2780 0.0075

Mercury -124416-09-04 22:35 J -43721273.70 -43721273.56 -43721273.41 0.2560 0.1077

Mercury -124413-03-17 21:08 J -43720348.62 -43720348.62 -43720348.61 0.2779 0.2767

Mercury -124412-03-01 21:37 J -43719999.67 -43719999.60 -43719999.54 0.2779 0.2154

Mercury -124406-03-11 18:30 J -43717798.84 -43717798.73 -43717798.63 0.2780 0.0668

Mercury -124403-09-08 05:03 J -43716522.45 -43716522.29 -43716522.13 0.2560 0.0146

Mercury -124399-03-04 16:06 J -43715248.93 -43715248.83 -43715248.74 0.2780 0.1424

Venus -124397-01-05 00:01 J -43714577.65 -43714577.50 -43714577.35 0.2711 0.1054

Mercury -124393-03-13 12:59 J -43713048.05 -43713047.96 -43713047.87 0.2780 0.1410

Mercury -124390-09-11 11:32 J -43711771.16 -43711771.02 -43711770.89 0.2560 0.1365

Mercury -124386-03-07 10:20 J -43710498.17 -43710498.07 -43710497.96 0.2780 0.0692

Mercury -124383-09-02 22:49 J -43709222.64 -43709222.55 -43709222.46 0.2561 0.2079

Mercury -124380-03-16 07:27 J -43708297.25 -43708297.19 -43708297.12 0.2780 0.2155

Mercury -124379-02-28 07:56 J -43707948.18 -43707948.17 -43707948.16 0.2779 0.2755

Mercury -124373-03-09 04:49 J -43705747.40 -43705747.30 -43705747.19 0.2780 0.0120

Mercury -124370-09-06 05:18 J -43704471.43 -43704471.28 -43704471.12 0.2560 0.0856

Mercury -124366-03-03 02:25 J -43703197.47 -43703197.40 -43703197.33 0.2779 0.2025

Mercury -124360-03-11 23:18 J -43700996.63 -43700996.53 -43700996.42 0.2780 0.0809

Mercury -124357-09-08 11:47 J -43699720.17 -43699720.01 -43699719.85 0.2560 0.0364

Mercury -124353-03-04 20:54 J -43698446.73 -43698446.63 -43698446.54 0.2780 0.1292

Mercury -124347-03-14 18:01 J -43696245.84 -43696245.75 -43696245.66 0.2780 0.1547

Mercury -124344-09-11 18:01 J -43694968.87 -43694968.75 -43694968.62 0.2560 0.1581

Mercury -124340-03-07 15:23 J -43693695.97 -43693695.86 -43693695.76 0.2780 0.0559

Mercury -124337-09-03 05:32 J -43692420.38 -43692420.27 -43692420.16 0.2560 0.1862

Mercury -124334-03-17 12:30 J -43691495.04 -43691494.98 -43691494.92 0.2779 0.2287

Mercury -124333-02-29 12:59 J -43691145.99 -43691145.96 -43691145.93 0.2779 0.2631

Mercury -124327-03-10 09:51 J -43688945.20 -43688945.09 -43688944.99 0.2780 0.0205

Mercury -124324-09-06 12:01 J -43687669.16 -43687669.00 -43687668.85 0.2560 0.0644

Mercury -124320-03-03 07:27 J -43686395.27 -43686395.19 -43686395.12 0.2779 0.1901

Mercury -124314-03-13 04:20 J -43684194.42 -43684194.32 -43684194.22 0.2780 0.0932

Mercury -124311-09-09 18:30 J -43682917.89 -43682917.73 -43682917.58 0.2560 0.0585

Mercury -124307-03-06 01:42 J -43681644.52 -43681644.43 -43681644.33 0.2780 0.1165

Mercury -124301-03-14 22:49 J -43679443.64 -43679443.55 -43679443.46 0.2780 0.1675

Mercury -124298-09-13 00:44 J -43678166.58 -43678166.47 -43678166.36 0.2560 0.1797

Mercury -124294-03-08 20:11 J -43676893.77 -43676893.66 -43676893.55 0.2780 0.0428

Mercury -124291-09-04 12:01 J -43675618.12 -43675618.00 -43675617.87 0.2560 0.1652

Mercury -124288-03-17 17:18 J -43674692.83 -43674692.78 -43674692.73 0.2780 0.2420

Mercury -124287-03-01 17:47 J -43674343.80 -43674343.76 -43674343.72 0.2779 0.2506

Mercury -124281-03-10 14:39 J -43672143.00 -43672142.89 -43672142.78 0.2780 0.0317

Mercury -124278-09-07 18:44 J -43670866.88 -43670866.72 -43670866.56 0.2560 0.0426

Mercury -124274-03-04 12:15 J -43669593.07 -43669592.99 -43669592.91 0.2780 0.1774

Mercury -124268-03-13 09:08 J -43667392.22 -43667392.12 -43667392.02 0.2780 0.1062

Mercury -124265-09-10 00:59 J -43666115.61 -43666115.46 -43666115.31 0.2560 0.0800

Mercury -124261-03-06 06:44 J -43664842.32 -43664842.22 -43664842.12 0.2780 0.1037

Venus -124260-06-29 08:11 J -43664362.26 -43664362.16 -43664362.06 0.2627 0.2009

Mercury -124255-03-16 03:37 J -43662641.43 -43662641.35 -43662641.27 0.2780 0.1809

Venus -124252-06-27 02:39 J -43661442.53 -43661442.39 -43661442.24 0.2631 0.0867

Mercury -124252-09-13 07:13 J -43661364.29 -43661364.20 -43661364.10 0.2560 0.2012

Mercury -124248-03-09 00:59 J -43660091.56 -43660091.46 -43660091.35 0.2780 0.0320

Mercury -124245-09-04 18:44 J -43658815.85 -43658815.72 -43658815.59 0.2560 0.1434

Mercury -124242-03-18 22:20 J -43657890.61 -43657890.57 -43657890.53 0.2780 0.2554

Mercury -124241-03-01 22:35 J -43657541.61 -43657541.56 -43657541.50 0.2779 0.2382

Mercury -124235-03-11 19:27 J -43655340.79 -43655340.69 -43655340.58 0.2781 0.0464

Mercury -124232-09-08 01:13 J -43654064.61 -43654064.45 -43654064.29 0.2560 0.0207

Mercury -124228-03-04 17:03 J -43652790.87 -43652790.79 -43652790.70 0.2780 0.1645

Mercury -124222-03-14 14:11 J -43650590.01 -43650589.91 -43650589.82 0.2780 0.1198

Mercury -124219-09-11 07:42 J -43649313.33 -43649313.18 -43649313.03 0.2560 0.1016

Mercury -124215-03-07 11:32 J -43648040.12 -43648040.02 -43648039.92 0.2780 0.0905

Mercury -124212-09-02 18:59 J -43646764.76 -43646764.71 -43646764.67 0.2561 0.2449

Mercury -124209-03-16 08:39 J -43645839.22 -43645839.14 -43645839.07 0.2780 0.1940

Mercury -124206-09-14 13:56 J -43644561.99 -43644561.92 -43644561.84 0.2560 0.2235

Mercury -124202-03-10 06:01 J -43643289.36 -43643289.25 -43643289.14 0.2780 0.0165

Mercury -124199-09-06 01:27 J -43642013.58 -43642013.44 -43642013.30 0.2560 0.1214

Mercury -124196-03-19 03:08 J -43641088.39 -43641088.37 -43641088.35 0.2779 0.2685

Mercury -124195-03-03 03:37 J -43640739.41 -43640739.35 -43640739.29 0.2779 0.2255

Mercury -124189-03-12 00:30 J -43638538.59 -43638538.48 -43638538.37 0.2781 0.0582

Mercury -124186-09-09 07:56 J -43637262.33 -43637262.17 -43637262.01 0.2560 0.0016

Mercury -124182-03-05 22:06 J -43635988.67 -43635988.58 -43635988.49 0.2780 0.1521

Mercury -124176-03-14 18:59 J -43633787.80 -43633787.71 -43633787.61 0.2781 0.1329

Mercury -124173-09-11 14:25 J -43632511.05 -43632510.90 -43632510.76 0.2560 0.1237

Mercury -124169-03-07 16:20 J -43631237.92 -43631237.82 -43631237.71 0.2780 0.0783

Mercury -124166-09-04 01:27 J -43629962.51 -43629962.44 -43629962.36 0.2560 0.2231

Mercury -124163-03-17 13:27 J -43629037.01 -43629036.94 -43629036.87 0.2780 0.2076

Mercury -124160-09-14 20:39 J -43627759.69 -43627759.64 -43627759.60 0.2560 0.2448

Mercury -124156-03-10 10:49 J -43626487.16 -43626487.05 -43626486.94 0.2780 0.0090

Venus -124154-01-04 21:23 J -43625821.75 -43625821.61 -43625821.47 0.2708 0.1276

Mercury -124153-09-06 08:11 J -43625211.31 -43625211.16 -43625211.02 0.2560 0.1000

Mercury -124149-03-03 08:25 J -43623937.22 -43623937.15 -43623937.08 0.2779 0.2127

Mercury -124143-03-13 05:18 J -43621736.38 -43621736.28 -43621736.17 0.2780 0.0717

Mercury -124140-09-09 14:39 J -43620460.06 -43620459.89 -43620459.73 0.2560 0.0244

Mercury -124136-03-06 02:54 J -43619186.47 -43619186.38 -43619186.29 0.2780 0.1387

Mercury -124130-03-16 00:01 J -43616985.60 -43616985.50 -43616985.41 0.2780 0.1465

Mercury -124127-09-12 20:54 J -43615708.76 -43615708.63 -43615708.49 0.2560 0.1460

Mercury -124123-03-08 21:23 J -43614435.72 -43614435.61 -43614435.51 0.2780 0.0646

Mercury -124120-09-04 08:11 J -43613160.26 -43613160.16 -43613160.06 0.2560 0.2018

Mercury -124117-03-17 18:30 J -43612234.80 -43612234.73 -43612234.67 0.2780 0.2211

Mercury -124116-03-01 18:59 J -43611885.73 -43611885.71 -43611885.70 0.2779 0.2735

Mercury -124110-03-11 15:51 J -43609684.95 -43609684.84 -43609684.73 0.2781 0.0107

Mercury -124107-09-07 14:39 J -43608409.04 -43608408.89 -43608408.73 0.2560 0.0781

Mercury -124103-03-04 13:13 J -43607135.02 -43607134.95 -43607134.87 0.2779 0.2004

Mercury -124097-03-13 10:20 J -43604934.17 -43604934.07 -43604933.97 0.2781 0.0845

Mercury -124094-09-10 21:08 J -43603657.78 -43603657.62 -43603657.46 0.2560 0.0453

Mercury -124090-03-07 07:42 J -43602384.27 -43602384.18 -43602384.08 0.2780 0.1263

Mercury -124084-03-16 04:49 J -43600183.39 -43600183.30 -43600183.21 0.2780 0.1594

Mercury -124081-09-13 03:37 J -43598906.48 -43598906.35 -43598906.23 0.2560 0.1672

Mercury -124077-03-09 02:11 J -43597633.52 -43597633.41 -43597633.30 0.2780 0.0518

Mercury -124074-09-05 14:54 J -43596358.00 -43596357.88 -43596357.77 0.2560 0.1798

Mercury -124071-03-18 23:18 J -43595432.58 -43595432.53 -43595432.47 0.2780 0.2343

Mercury -124070-03-02 23:47 J -43595083.54 -43595083.51 -43595083.47 0.2779 0.2606

Mercury -124064-03-11 20:39 J -43592882.75 -43592882.64 -43592882.53 0.2781 0.0230

Mercury -124061-09-07 21:23 J -43591606.77 -43591606.61 -43591606.46 0.2560 0.0566

Mercury -124057-03-04 18:15 J -43590332.82 -43590332.74 -43590332.66 0.2780 0.1872

Mercury -124051-03-14 15:08 J -43588131.97 -43588131.87 -43588131.77 0.2781 0.0976

Mercury -124048-09-11 03:51 J -43586855.50 -43586855.34 -43586855.19 0.2560 0.0670

Mercury -124044-03-07 12:44 J -43585582.07 -43585581.97 -43585581.88 0.2780 0.1134

Mercury -124038-03-17 09:37 J -43583381.18 -43583381.10 -43583381.01 0.2780 0.1726

Mercury -124035-09-14 10:06 J -43582104.18 -43582104.08 -43582103.97 0.2560 0.1893

Mercury -124031-03-10 07:13 J -43580831.31 -43580831.20 -43580831.10 0.2781 0.0403

Mercury -124028-09-05 21:23 J -43579555.73 -43579555.61 -43579555.48 0.2560 0.1581

Mercury -124025-03-19 04:20 J -43578630.37 -43578630.32 -43578630.28 0.2780 0.2478

Mercury -124024-03-03 04:35 J -43578281.35 -43578281.31 -43578281.26 0.2779 0.2482

Mercury -124018-03-13 01:42 J -43576080.54 -43576080.43 -43576080.33 0.2781 0.0375

Venus -124017-06-29 13:13 J -43575606.01 -43575605.95 -43575605.89 0.2629 0.2422

Mercury -124015-09-09 04:06 J -43574804.49 -43574804.33 -43574804.17 0.2560 0.0351

Mercury -124011-03-05 23:03 J -43573530.62 -43573530.54 -43573530.46 0.2780 0.1745

Venus -124009-06-27 07:42 J -43572686.33 -43572686.18 -43572686.02 0.2633 0.0471

Mercury -124005-03-14 20:11 J -43571329.76 -43571329.66 -43571329.57 0.2781 0.1116

Mercury -124002-09-12 10:20 J -43570053.22 -43570053.07 -43570052.92 0.2560 0.0885

124TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 124th millennium BCE.

PLANET	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
	TRANSIT							
	TIME							
Mercury	-123998-03-08 17:32 J	-43568779.87	-43568779.77	-43568779.67	0.2780	0.1002		
Mercury	-123992-03-17 14:39 J	-43566578.97	-43566578.89	-43566578.81	0.2780	0.1862		
Mercury	-123989-09-14 16:35 J	-43565301.90	-43565301.81	-43565301.72	0.2560	0.2104		
Mercury	-123985-03-10 12:01 J	-43564029.11	-43564029.00	-43564028.89	0.2781	0.0257		
Mercury	-123982-09-07 04:06 J	-43562753.46	-43562753.33	-43562753.19	0.2560	0.1360		
Mercury	-123979-03-20 09:08 J	-43561828.15	-43561828.12	-43561828.09	0.2780	0.2610		
Mercury	-123978-03-04 09:37 J	-43561479.16	-43561479.10	-43561479.05	0.2779	0.2353		
Mercury	-123972-03-13 06:30 J	-43559278.34	-43559278.23	-43559278.13	0.2781	0.0493		
Mercury	-123969-09-09 10:35 J	-43558002.22	-43558002.06	-43558001.90	0.2560	0.0128		
Mercury	-123965-03-06 04:06 J	-43556728.42	-43556728.33	-43556728.25	0.2780	0.1616		
Mercury	-123959-03-16 00:59 J	-43554527.56	-43554527.46	-43554527.36	0.2781	0.1241		
Mercury	-123956-09-12 17:03 J	-43553250.93	-43553250.79	-43553250.64	0.2560	0.1112		
Mercury	-123952-03-08 22:35 J	-43551977.67	-43551977.56	-43551977.46	0.2780	0.0877		
Mercury	-123949-09-04 04:20 J	-43550702.38	-43550702.32	-43550702.27	0.2560	0.2380		
Mercury	-123946-03-18 19:27 J	-43549776.76	-43549776.69	-43549776.61	0.2780	0.1995		
Mercury	-123943-09-15 23:18 J	-43548499.59	-43548499.53	-43548499.46	0.2560	0.2329		
Mercury	-123939-03-11 16:49 J	-43547226.90	-43547226.80	-43547226.69	0.2781	0.0159		
Mercury	-123936-09-07 10:49 J	-43545951.19	-43545951.05	-43545950.91	0.2560	0.1142		
Mercury	-123933-03-20 13:56 J	-43545025.93	-43545025.92	-43545025.90	0.2780	0.2749		
Mercury	-123932-03-04 14:25 J	-43544676.96	-43544676.90	-43544676.84	0.2779	0.2226		
Mercury	-123926-03-14 11:18 J	-43542476.13	-43542476.03	-43542475.92	0.2781	0.0631		
Mercury	-123923-09-10 17:18 J	-43541199.94	-43541199.78	-43541199.62	0.2560	0.0104		
Venus	-123919-01-07 07:27 J	-43539985.24	-43539985.19	-43539985.13	0.2709	0.2536		
Mercury	-123919-03-07 08:54 J	-43539926.22	-43539926.13	-43539926.04	0.2780	0.1485		
Mercury	-123913-03-16 05:47 J	-43537725.35	-43537725.26	-43537725.16	0.2781	0.1378		
Venus	-123911-01-04 18:44 J	-43537065.86	-43537065.72	-43537065.59	0.2705	0.1507		

Mercury -123910-09-13 23:32 J -43536448.65 -43536448.52 -43536448.38 0.2560 0.1330

Mercury -123906-03-10 03:23 J -43535175.47 -43535175.36 -43535175.26 0.2780 0.0739

Mercury -123903-09-05 11:03 J -43533900.13 -43533900.04 -43533899.96 0.2560 0.2157

Mercury -123900-03-19 00:30 J -43532974.55 -43532974.48 -43532974.42 0.2780 0.2131

Mercury -123897-09-16 06:01 J -43531697.27 -43531697.25 -43531697.24 0.2560 0.2546

Mercury -123893-03-11 21:51 J -43530424.70 -43530424.59 -43530424.48 0.2781 0.0052

Mercury -123890-09-08 17:32 J -43529148.92 -43529148.77 -43529148.62 0.2560 0.0920

Mercury -123886-03-05 19:27 J -43527874.76 -43527874.69 -43527874.62 0.2780 0.2099

Mercury -123880-03-14 16:20 J -43525673.93 -43525673.82 -43525673.72 0.2781 0.0762

Mercury -123877-09-11 00:01 J -43524397.66 -43524397.50 -43524397.34 0.2560 0.0324

Mercury -123873-03-07 13:42 J -43523124.02 -43523123.93 -43523123.83 0.2780 0.1357

Mercury -123867-03-17 10:49 J -43520923.14 -43520923.05 -43520922.96 0.2781 0.1510

Mercury -123864-09-14 06:15 J -43519646.36 -43519646.24 -43519646.11 0.2560 0.1552

Mercury -123860-03-10 08:11 J -43518373.26 -43518373.16 -43518373.05 0.2781 0.0611

Mercury -123857-09-05 17:32 J -43517097.87 -43517097.77 -43517097.67 0.2560 0.1943

Mercury -123854-03-20 05:18 J -43516172.34 -43516172.28 -43516172.22 0.2780 0.2263

Mercury -123853-03-03 05:47 J -43515823.28 -43515823.26 -43515823.24 0.2779 0.2708

Mercury -123847-03-13 02:39 J -43513622.50 -43513622.39 -43513622.28 0.2781 0.0154

Mercury -123844-09-09 00:01 J -43512346.65 -43512346.50 -43512346.34 0.2560 0.0702

Mercury -123840-03-06 00:15 J -43511072.57 -43511072.49 -43511072.42 0.2779 0.1970

Mercury -123834-03-15 21:08 J -43508871.72 -43508871.62 -43508871.52 0.2781 0.0894

Mercury -123831-09-12 06:30 J -43507595.39 -43507595.23 -43507595.07 0.2559 0.0539

Mercury -123827-03-08 18:44 J -43506321.82 -43506321.72 -43506321.63 0.2780 0.1228

Mercury -123821-03-17 15:37 J -43504120.93 -43504120.85 -43504120.76 0.2781 0.1646

Mercury -123818-09-15 12:44 J -43502844.08 -43502843.97 -43502843.85 0.2559 0.1768

Mercury -123814-03-11 13:13 J -43501571.06 -43501570.95 -43501570.85 0.2781 0.0488

Mercury -123811-09-07 00:15 J -43500295.61 -43500295.49 -43500295.37 0.2560 0.1721

Mercury -123808-03-20 10:06 J -43499370.13 -43499370.08 -43499370.02 0.2781 0.2400

Mercury -123807-03-04 10:35 J -43499021.09 -43499021.06 -43499021.02 0.2779 0.2583

Mercury -123801-03-13 07:27 J -43496820.29 -43496820.19 -43496820.08 0.2781 0.0292

Mercury -123798-09-10 06:44 J -43495544.38 -43495544.22 -43495544.06 0.2560 0.0483

Mercury -123794-03-07 05:03 J -43494270.37 -43494270.29 -43494270.21 0.2780 0.1841

Mercury -123788-03-16 01:56 J -43492069.52 -43492069.42 -43492069.31 0.2781 0.1032

Mercury -123785-09-12 13:13 J -43490793.11 -43490792.95 -43490792.80 0.2559 0.0761

Mercury -123781-03-08 23:32 J -43489519.62 -43489519.52 -43489519.42 0.2780 0.1096

Mercury -123775-03-18 20:39 J -43487318.73 -43487318.64 -43487318.56 0.2781 0.1781

Mercury -123772-09-15 19:27 J -43486041.79 -43486041.69 -43486041.59 0.2559 0.1992

Mercury -123768-03-11 18:01 J -43484768.86 -43484768.75 -43484768.64 0.2781 0.0346

Venus -123766-06-28 12:30 J -43483930.13 -43483929.98 -43483929.82 0.2636 0.0103

Mercury -123765-09-07 06:44 J -43483493.35 -43483493.22 -43483493.09 0.2560 0.1508

Mercury -123762-03-21 15:08 J -43482567.91 -43482567.87 -43482567.83 0.2780 0.2535

Mercury -123761-03-04 15:37 J -43482218.90 -43482218.85 -43482218.80 0.2779 0.2454

Mercury -123755-03-14 12:30 J -43480018.09 -43480017.98 -43480017.87 0.2781 0.0409

Mercury -123752-09-10 13:27 J -43478742.11 -43478741.94 -43478741.78 0.2560 0.0271

Mercury -123748-03-07 10:06 J -43477468.17 -43477468.08 -43477468.00 0.2780 0.1715

Mercury -123742-03-17 06:59 J -43475267.31 -43475267.21 -43475267.11 0.2781 0.1160

Mercury -123739-09-13 19:42 J -43473990.83 -43473990.68 -43473990.53 0.2559 0.0977

Mercury -123735-03-10 04:20 J -43472717.42 -43472717.32 -43472717.21 0.2780 0.0972

Mercury -123732-09-05 06:59 J -43471442.23 -43471442.21 -43471442.18 0.2560 0.2520

Mercury -123729-03-19 01:27 J -43470516.52 -43470516.44 -43470516.36 0.2781 0.1913

Mercury -123726-09-17 02:11 J -43469239.49 -43469239.41 -43469239.33 0.2559 0.2208

Mercury -123722-03-12 22:49 J -43467966.66 -43467966.55 -43467966.44 0.2781 0.0224

Mercury -123719-09-08 13:27 J -43466691.08 -43466690.94 -43466690.80 0.2560 0.1282

Mercury -123716-03-21 19:56 J -43465765.69 -43465765.67 -43465765.64 0.2780 0.2671

Mercury -123715-03-05 20:25 J -43465416.71 -43465416.65 -43465416.59 0.2779 0.2324

Mercury -123709-03-14 17:18 J -43463215.88 -43463215.78 -43463215.67 0.2781 0.0545

Mercury -123706-09-11 19:56 J -43461939.83 -43461939.67 -43461939.51 0.2559 0.0042

Mercury -123702-03-08 14:54 J -43460665.97 -43460665.88 -43460665.79 0.2780 0.1579

Mercury -123696-03-17 11:46 J -43458465.10 -43458465.01 -43458464.91 0.2781 0.1298

Mercury -123693-09-14 02:25 J -43457188.54 -43457188.40 -43457188.26 0.2559 0.1200

Mercury -123689-03-10 09:22 J -43455915.22 -43455915.11 -43455915.01 0.2781 0.0834

Mercury -123686-09-06 13:42 J -43454640.00 -43454639.93 -43454639.86 0.2560 0.2304

Mercury -123683-03-20 06:15 J -43453714.31 -43453714.24 -43453714.16 0.2781 0.2053

Mercury -123680-09-17 08:39 J -43452437.18 -43452437.14 -43452437.09 0.2559 0.2434

Venus -123676-01-07 04:49 J -43451229.38 -43451229.30 -43451229.22 0.2706 0.2303

Mercury -123676-03-13 03:51 J -43451164.45 -43451164.34 -43451164.23 0.2781 0.0106

Mercury -123673-09-08 20:10 J -43449888.81 -43449888.66 -43449888.51 0.2560 0.1059

Mercury -123669-03-06 01:27 J -43448614.51 -43448614.44 -43448614.38 0.2779 0.2196

Venus -123668-01-04 16:06 J -43448309.95 -43448309.83 -43448309.70 0.2701 0.1709

Mercury -123663-03-15 22:20 J -43446413.68 -43446413.57 -43446413.47 0.2781 0.0679

Mercury -123660-09-12 02:39 J -43445137.55 -43445137.39 -43445137.23 0.2559 0.0184

Mercury -123656-03-08 19:42 J -43443863.77 -43443863.68 -43443863.58 0.2780 0.1452

Mercury -123650-03-18 16:49 J -43441662.90 -43441662.80 -43441662.71 0.2781 0.1431

Mercury -123647-09-15 08:54 J -43440386.26 -43440386.13 -43440385.99 0.2559 0.1423

Mercury -123643-03-11 14:10 J -43439113.01 -43439112.91 -43439112.80 0.2781 0.0702

Mercury -123640-09-06 20:25 J -43437837.74 -43437837.65 -43437837.56 0.2560 0.2077

Mercury -123637-03-20 11:18 J -43436912.10 -43436912.03 -43436911.97 0.2781 0.2185

Mercury -123630-03-14 08:39 J -43434362.25 -43434362.14 -43434362.03 0.2781 0.0059

Mercury -123627-09-10 02:54 J -43433086.53 -43433086.38 -43433086.23 0.2560 0.0838

Mercury -123623-03-07 06:15 J -43431812.31 -43431812.24 -43431812.17 0.2780 0.2065

Mercury -123617-03-16 03:08 J -43429611.47 -43429611.37 -43429611.27 0.2781 0.0809

Mercury -123614-09-13 09:22 J -43428335.27 -43428335.11 -43428334.95 0.2559 0.0410

Mercury -123610-03-10 00:44 J -43427061.57 -43427061.47 -43427061.38 0.2780 0.1319

Mercury -123604-03-18 21:37 J -43424860.69 -43424860.60 -43424860.51 0.2781 0.1565

Mercury -123601-09-15 15:37 J -43423583.97 -43423583.85 -43423583.72 0.2559 0.1650

Mercury -123597-03-11 19:13 J -43422310.81 -43422310.70 -43422310.60 0.2781 0.0577

Mercury -123594-09-08 02:54 J -43421035.49 -43421035.38 -43421035.27 0.2560 0.1865

Mercury -123591-03-21 16:06 J -43420109.88 -43420109.83 -43420109.77 0.2781 0.2322

Mercury -123590-03-05 16:34 J -43419760.83 -43419760.81 -43419760.78 0.2779 0.2682

Mercury -123584-03-14 13:27 J -43417560.04 -43417559.94 -43417559.83 0.2781 0.0220

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Mercury -123571-03-17 07:56 J -43412809.27 -43412809.17 -43412809.06 0.2782 0.0950

Mercury -123568-09-13 15:51 J -43411532.99 -43411532.84 -43411532.68 0.2559 0.0630

Mercury -123564-03-10 05:32 J -43410259.37 -43410259.27 -43410259.17 0.2780 0.1187

Mercury -123558-03-20 02:25 J -43408058.48 -43408058.40 -43408058.31 0.2781 0.1702

Mercury -123555-09-16 22:20 J -43406781.68 -43406781.57 -43406781.46 0.2559 0.1867

Mercury -123551-03-13 00:01 J -43405508.61 -43405508.50 -43405508.39 0.2781 0.0435

Mercury -123548-09-08 09:37 J -43404233.22 -43404233.10 -43404232.98 0.2560 0.1641

Mercury -123545-03-21 21:08 J -43403307.67 -43403307.62 -43403307.58 0.2781 0.2456

Mercury -123544-03-05 21:37 J -43402958.64 -43402958.60 -43402958.56 0.2779 0.2555

Mercury -123538-03-15 18:30 J -43400757.84 -43400757.73 -43400757.62 0.2781 0.0321

Mercury -123535-09-11 16:06 J -43399481.99 -43399481.83 -43399481.67 0.2559 0.0397

Mercury -123531-03-08 16:06 J -43398207.92 -43398207.83 -43398207.75 0.2780 0.1808

Mercury -123525-03-17 12:58 J -43396007.06 -43396006.96 -43396006.86 0.2781 0.1079

Venus -123523-06-28 17:32 J -43395173.92 -43395173.77 -43395173.61 0.2639 0.0306

Mercury -123522-09-14 22:34 J -43394730.72 -43394730.56 -43394730.41 0.2559 0.0851

Mercury -123518-03-11 10:20 J -43393457.17 -43393457.07 -43393456.97 0.2781 0.1059

Venus -123515-06-26 12:01 J -43392254.02 -43392254.00 -43392253.98 0.2643 0.2610

Mercury -123512-03-20 07:27 J -43391256.27 -43391256.19 -43391256.11 0.2781 0.1837

Mercury -123509-09-17 05:03 J -43389979.38 -43389979.29 -43389979.20 0.2559 0.2094

Mercury -123505-03-13 04:49 J -43388706.40 -43388706.30 -43388706.19 0.2781 0.0312

Mercury -123502-09-09 16:06 J -43387430.96 -43387430.83 -43387430.69 0.2560 0.1423

Mercury -123499-03-23 01:56 J -43386505.45 -43386505.42 -43386505.38 0.2781 0.2595

Mercury -123498-03-07 02:25 J -43386156.45 -43386156.40 -43386156.35 0.2779 0.2425

Mercury -123492-03-15 23:18 J -43383955.63 -43383955.53 -43383955.42 0.2781 0.0460

Mercury -123489-09-11 22:49 J -43382679.72 -43382679.55 -43382679.39 0.2559 0.0181

Mercury -123485-03-08 20:54 J -43381405.72 -43381405.63 -43381405.54 0.2780 0.1676

Mercury -123479-03-18 17:46 J -43379204.85 -43379204.76 -43379204.66 0.2781 0.1215

Mercury -123476-09-15 05:03 J -43377928.43 -43377928.29 -43377928.14 0.2559 0.1077

Mercury -123472-03-11 15:22 J -43376654.96 -43376654.86 -43376654.76 0.2781 0.0924

Mercury -123469-09-06 16:20 J -43375379.86 -43375379.82 -43375379.77 0.2560 0.2447

Mercury -123466-03-21 12:15 J -43374454.06 -43374453.99 -43374453.91 0.2781 0.1974

Mercury -123463-09-18 11:32 J -43373177.09 -43373177.02 -43373176.95 0.2559 0.2313

Mercury -123459-03-14 09:51 J -43371904.20 -43371904.09 -43371903.98 0.2781 0.0178

Mercury -123456-09-09 22:49 J -43370628.69 -43370628.55 -43370628.41 0.2560 0.1198

Mercury -123453-03-23 06:58 J -43369703.23 -43369703.21 -43369703.20 0.2781 0.2732

Mercury -123452-03-07 07:27 J -43369354.25 -43369354.19 -43369354.13 0.2780 0.2296

Mercury -123446-03-17 04:20 J -43367153.43 -43367153.32 -43367153.22 0.2781 0.0595

Mercury -123443-09-13 05:18 J -43365877.44 -43365877.28 -43365877.12 0.2559 0.0058

Mercury -123439-03-10 01:42 J -43364603.52 -43364603.43 -43364603.34 0.2780 0.1546

Venus -123433-01-08 02:10 J -43362473.51 -43362473.41 -43362473.31 0.2702 0.2097

Mercury -123433-03-18 22:49 J -43362402.65 -43362402.55 -43362402.46 0.2781 0.1352

Mercury -123430-09-16 11:46 J -43361126.15 -43361126.01 -43361125.87 0.2559 0.1302

Mercury -123426-03-12 20:10 J -43359852.76 -43359852.66 -43359852.55 0.2781 0.0792

Venus -123425-01-05 13:13 J -43359554.06 -43359553.95 -43359553.83 0.2697 0.1934

Mercury -123423-09-07 23:03 J -43358577.62 -43358577.54 -43358577.47 0.2560 0.2230

Mercury -123420-03-21 17:18 J -43357651.85 -43357651.78 -43357651.71 0.2781 0.2111

Mercury -123417-09-18 18:15 J -43356374.76 -43356374.74 -43356374.73 0.2559 0.2539

Mercury -123413-03-14 14:39 J -43355102.00 -43355101.89 -43355101.78 0.2781 0.0040

Mercury -123410-09-11 05:32 J -43353826.42 -43353826.27 -43353826.12 0.2560 0.0975

Mercury -123406-03-08 12:15 J -43352552.06 -43352551.99 -43352551.92 0.2780 0.2162

Mercury -123400-03-17 09:08 J -43350351.22 -43350351.12 -43350351.02 0.2782 0.0724

Mercury -123397-09-13 12:01 J -43349075.16 -43349075.00 -43349074.84 0.2559 0.0279

Mercury -123393-03-10 06:44 J -43347801.31 -43347801.22 -43347801.13 0.2780 0.1411

Mercury -123387-03-20 03:37 J -43345600.44 -43345600.35 -43345600.26 0.2782 0.1486

Mercury -123384-09-16 18:30 J -43344323.86 -43344323.73 -43344323.60 0.2559 0.1523

Mercury -123380-03-13 01:13 J -43343050.56 -43343050.45 -43343050.35 0.2781 0.0662

Mercury -123377-09-08 05:46 J -43341775.36 -43341775.26 -43341775.16 0.2560 0.2004

Mercury -123374-03-22 22:06 J -43340849.64 -43340849.58 -43340849.52 0.2781 0.2245

Mercury -123367-03-15 19:42 J -43338299.79 -43338299.68 -43338299.58 0.2781 0.0156

Mercury -123364-09-11 12:15 J -43337024.15 -43337023.99 -43337023.84 0.2560 0.0753

Mercury -123360-03-08 17:03 J -43335749.86 -43335749.79 -43335749.71 0.2780 0.2034

Mercury -123354-03-18 13:56 J -43333549.02 -43333548.92 -43333548.81 0.2782 0.0865

Mercury -123351-09-14 18:30 J -43332272.88 -43332272.73 -43332272.57 0.2559 0.0502

Mercury -123347-03-11 11:32 J -43330999.12 -43330999.02 -43330998.92 0.2781 0.1279

Mercury -123341-03-20 08:25 J -43328798.23 -43328798.15 -43328798.06 0.2782 0.1626

Mercury -123338-09-18 00:58 J -43327521.57 -43327521.46 -43327521.34 0.2559 0.1748

Mercury -123334-03-14 06:01 J -43326248.36 -43326248.25 -43326248.14 0.2781 0.0524

Mercury -123331-09-09 12:15 J -43324973.10 -43324972.99 -43324972.87 0.2560 0.1782

Mercury -123328-03-23 03:08 J -43324047.43 -43324047.37 -43324047.32 0.2781 0.2385

Mercury -123327-03-07 03:37 J -43323698.38 -43323698.35 -43323698.32 0.2779 0.2650

Mercury -123321-03-16 00:30 J -43321497.59 -43321497.48 -43321497.37 0.2782 0.0236

Mercury -123318-09-12 18:58 J -43320221.87 -43320221.71 -43320221.56 0.2559 0.0528

Mercury -123314-03-09 22:06 J -43318947.66 -43318947.58 -43318947.51 0.2780 0.1903

Mercury -123308-03-18 18:58 J -43316746.81 -43316746.71 -43316746.61 0.2782 0.0997

Mercury -123305-09-15 01:13 J -43315470.60 -43315470.45 -43315470.29 0.2559 0.0731

Mercury -123301-03-11 16:34 J -43314196.91 -43314196.81 -43314196.72 0.2781 0.1152

Mercury -123295-03-21 13:27 J -43311996.03 -43311995.94 -43311995.86 0.2781 0.1757

Mercury -123292-09-18 07:42 J -43310719.28 -43310719.18 -43310719.08 0.2559 0.1972

Mercury -123288-03-14 10:49 J -43309446.15 -43309446.05 -43309445.94 0.2781 0.0401

Mercury -123285-09-09 18:58 J -43308170.84 -43308170.71 -43308170.58 0.2560 0.1558

Mercury -123282-03-24 07:56 J -43307245.21 -43307245.17 -43307245.13 0.2781 0.2519

Mercury -123281-03-07 08:25 J -43306896.19 -43306896.15 -43306896.11 0.2779 0.2522

Venus -123280-06-28 22:20 J -43306417.72 -43306417.57 -43306417.42 0.2642 0.0670

Mercury -123275-03-17 05:18 J -43304695.39 -43304695.28 -43304695.17 0.2782 0.0375

Venus -123272-06-26 16:49 J -43303497.88 -43303497.80 -43303497.72 0.2646 0.2254

Mercury -123272-09-13 01:27 J -43303419.60 -43303419.44 -43303419.28 0.2559 0.0302

Mercury -123268-03-10 02:54 J -43302145.46 -43302145.38 -43302145.30 0.2780 0.1770

Mercury -123262-03-19 23:46 J -43299944.61 -43299944.51 -43299944.41 0.2782 0.1133

Mercury -123259-09-16 07:56 J -43298668.32 -43298668.17 -43298668.02 0.2559 0.0955

Mercury -123255-03-12 21:22 J -43297394.71 -43297394.61 -43297394.51 0.2781 0.1015

Mercury -123249-03-21 18:15 J -43295193.81 -43295193.74 -43295193.66 0.2782 0.1898

Mercury -123246-09-19 14:25 J -43293916.98 -43293916.90 -43293916.82 0.2559 0.2200

Mercury -123242-03-15 15:51 J -43292643.95 -43292643.84 -43292643.73 0.2781 0.0264

Mercury -123239-09-11 01:27 J -43291368.57 -43291368.44 -43291368.30 0.2560 0.1338

Mercury -123236-03-24 12:44 J -43290442.99 -43290442.97 -43290442.94 0.2781 0.2661

Mercury -123235-03-08 13:13 J -43290094.00 -43290093.95 -43290093.89 0.2779 0.2394

Mercury -123229-03-17 10:20 J -43287893.18 -43287893.07 -43287892.97 0.2782 0.0514

Mercury -123226-09-14 08:10 J -43286617.32 -43286617.16 -43286617.00 0.2559 0.0070

Mercury -123222-03-11 07:42 J -43285343.26 -43285343.18 -43285343.09 0.2780 0.1641

Mercury -123216-03-20 04:49 J -43283142.40 -43283142.30 -43283142.21 0.2782 0.1273

Mercury -123213-09-16 14:39 J -43281866.03 -43281865.89 -43281865.75 0.2559 0.1183

Mercury -123209-03-13 02:10 J -43280592.51 -43280592.41 -43280592.30 0.2781 0.0882

Mercury -123206-09-09 01:42 J -43279317.49 -43279317.43 -43279317.37 0.2560 0.2370

Mercury -123203-03-22 23:18 J -43278391.61 -43278391.53 -43278391.46 0.2782 0.2034

Mercury -123200-09-19 20:54 J -43277114.68 -43277114.63 -43277114.58 0.2559 0.2425

Mercury -123196-03-15 20:39 J -43275841.75 -43275841.64 -43275841.53 0.2781 0.0124

Mercury -123193-09-11 08:10 J -43274566.30 -43274566.16 -43274566.01 0.2560 0.1112

Venus -123190-01-07 23:32 J -43273717.64 -43273717.52 -43273717.40 0.2699 0.1880

Mercury -123189-03-08 18:15 J -43273291.80 -43273291.74 -43273291.68 0.2779 0.2261

Mercury -123183-03-18 15:08 J -43271090.97 -43271090.87 -43271090.76 0.2782 0.0643

Venus -123182-01-05 10:49 J -43270798.15 -43270798.05 -43270797.95 0.2694 0.2110

Mercury -123180-09-14 14:39 J -43269815.05 -43269814.89 -43269814.73 0.2559 0.0153

Mercury -123176-03-11 12:44 J -43268541.06 -43268540.97 -43268540.88 0.2780 0.1508

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Mercury -123167-09-17 21:08 J -43265063.75 -43265063.62 -43265063.48 0.2559 0.1407

Mercury -123163-03-14 07:13 J -43263790.31 -43263790.20 -43263790.10 0.2781 0.0753

Mercury -123160-09-09 08:25 J -43262515.24 -43262515.15 -43262515.07 0.2560 0.2146

Mercury -123157-03-23 04:06 J -43261589.39 -43261589.33 -43261589.26 0.2782 0.2173

Mercury -123150-03-17 01:42 J -43259039.54 -43259039.43 -43259039.33 0.2782 0.0119

Mercury -123147-09-12 14:54 J -43257764.03 -43257763.88 -43257763.73 0.2559 0.0883

Mercury -123143-03-09 23:03 J -43256489.60 -43256489.54 -43256489.47 0.2780 0.2129

Mercury -123137-03-18 19:56 J -43254288.77 -43254288.67 -43254288.56 0.2782 0.0784

Mercury -123134-09-15 21:22 J -43253012.77 -43253012.61 -43253012.45 0.2559 0.0381

Mercury -123130-03-12 17:32 J -43251738.86 -43251738.77 -43251738.67 0.2781 0.1374

Mercury -123124-03-21 14:25 J -43249537.99 -43249537.90 -43249537.81 0.2782 0.1546

Mercury -123121-09-18 03:51 J -43248261.46 -43248261.34 -43248261.22 0.2559 0.1633

Mercury -123117-03-14 12:01 J -43246988.11 -43246988.00 -43246987.89 0.2781 0.0612

Mercury -123114-09-10 15:08 J -43245712.98 -43245712.87 -43245712.77 0.2560 0.1921

Mercury -123111-03-24 09:08 J -43244787.18 -43244787.12 -43244787.07 0.2781 0.2311

Mercury -123110-03-08 09:37 J -43244438.11 -43244438.10 -43244438.09 0.2779 0.2748

Mercury -123104-03-17 06:30 J -43242237.34 -43242237.23 -43242237.12 0.2782 0.0161

Mercury -123101-09-12 21:22 J -43240961.76 -43240961.61 -43240961.45 0.2559 0.0666

Mercury -123097-03-10 04:06 J -43239687.41 -43239687.33 -43239687.26 0.2780 0.1997

Mercury -123091-03-20 00:58 J -43237486.56 -43237486.46 -43237486.36 0.2782 0.0916

Mercury -123088-09-16 04:06 J -43236210.49 -43236210.33 -43236210.18 0.2559 0.0606

Mercury -123084-03-12 22:20 J -43234936.66 -43234936.57 -43234936.47 0.2781 0.1245

Mercury -123078-03-22 19:27 J -43232735.78 -43232735.69 -43232735.61 0.2782 0.1680

Mercury -123075-09-19 10:20 J -43231459.18 -43231459.07 -43231458.96 0.2559 0.1858

Mercury -123071-03-15 16:49 J -43230185.90 -43230185.80 -43230185.69 0.2781 0.0483

Mercury -123068-09-10 21:37 J -43228910.72 -43228910.60 -43228910.48 0.2560 0.1697

Mercury -123065-03-24 13:56 J -43227984.97 -43227984.92 -43227984.87 0.2782 0.2447

Mercury -123064-03-08 14:25 J -43227635.93 -43227635.90 -43227635.86 0.2779 0.2617

Mercury -123058-03-18 11:18 J -43225435.14 -43225435.03 -43225434.92 0.2782 0.0287

Mercury -123055-09-14 04:20 J -43224159.48 -43224159.32 -43224159.16 0.2559 0.0434

Mercury -123051-03-11 08:54 J -43222885.21 -43222885.13 -43222885.05 0.2780 0.1863

Mercury -123045-03-20 05:46 J -43220684.36 -43220684.26 -43220684.16 0.2782 0.1052

Mercury -123042-09-17 10:34 J -43219408.21 -43219408.06 -43219407.90 0.2559 0.0834

Mercury -123038-03-14 03:22 J -43218134.46 -43218134.36 -43218134.26 0.2781 0.1104

Venus -123037-06-29 03:22 J -43217661.51 -43217661.36 -43217661.22 0.2645 0.1058

Mercury -123032-03-23 00:15 J -43215933.57 -43215933.49 -43215933.41 0.2782 0.1818

Venus -123029-06-26 21:37 J -43214741.70 -43214741.60 -43214741.49 0.2649 0.1897

Mercury -123029-09-19 17:03 J -43214656.88 -43214656.79 -43214656.70 0.2559 0.2082

Mercury -123025-03-15 21:51 J -43213383.70 -43213383.59 -43213383.49 0.2782 0.0351

Mercury -123022-09-12 04:20 J -43212108.45 -43212108.32 -43212108.19 0.2560 0.1470

Mercury -123019-03-25 18:44 J -43211182.75 -43211182.72 -43211182.68 0.2782 0.2587

Mercury -123018-03-09 19:27 J -43210833.74 -43210833.69 -43210833.65 0.2779 0.2489

Mercury -123012-03-18 16:20 J -43208632.93 -43208632.82 -43208632.72 0.2782 0.0435

Mercury -123009-09-14 10:49 J -43207357.21 -43207357.05 -43207356.89 0.2559 0.0207

Mercury -123005-03-11 13:42 J -43206083.01 -43206082.93 -43206082.84 0.2780 0.1733

123RD MILLENNIUM BCE

This is a list of transits visible from Earth in the 123rd millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-122999-03-21 10:49 J	-43203882.15	-43203882.05	-43203881.96	0.2782	0.1193		
Mercury	-122996-09-17 17:18 J	-43202605.93	-43202605.78	-43202605.64	0.2559	0.1057		
Mercury	-122992-03-14 08:10 J	-43201332.26	-43201332.16	-43201332.06	0.2781	0.0971		
Mercury	-122989-09-09 04:34 J	-43200057.34	-43200057.31	-43200057.28	0.2560	0.2505		
Mercury	-122986-03-24 05:18 J	-43199131.36	-43199131.28	-43199131.21	0.2782	0.1958		

Mercury -122983-09-20 23:46 J -43197854.58 -43197854.51 -43197854.45 0.2559 0.2314

Mercury -122979-03-17 02:39 J -43196581.50 -43196581.39 -43196581.28 0.2782 0.0208

Mercury -122976-09-12 11:03 J -43195306.18 -43195306.04 -43195305.90 0.2560 0.1237

Mercury -122973-03-25 23:46 J -43194380.53 -43194380.51 -43194380.49 0.2782 0.2725

Mercury -122972-03-10 00:15 J -43194031.55 -43194031.49 -43194031.43 0.2779 0.2353

Mercury -122966-03-19 21:08 J -43191830.73 -43191830.62 -43191830.51 0.2782 0.0563

Mercury -122963-09-15 17:32 J -43190554.93 -43190554.77 -43190554.61 0.2559 0.0037

Mercury -122959-03-12 18:44 J -43189280.81 -43189280.72 -43189280.63 0.2780 0.1597

Mercury -122953-03-21 15:37 J -43187079.94 -43187079.85 -43187079.76 0.2782 0.1328

Mercury -122950-09-19 00:01 J -43185803.64 -43185803.50 -43185803.36 0.2559 0.1288

Venus -122947-01-07 20:54 J -43184961.76 -43184961.63 -43184961.50 0.2695 0.1688

Mercury -122946-03-15 13:13 J -43184530.06 -43184529.95 -43184529.85 0.2781 0.0840

Mercury -122943-09-10 11:03 J -43183255.11 -43183255.04 -43183254.97 0.2560 0.2279

Mercury -122940-03-24 10:06 J -43182329.15 -43182329.08 -43182329.01 0.2782 0.2094

Venus -122939-01-05 08:10 J -43182042.24 -43182042.16 -43182042.08 0.2690 0.2314

Mercury -122937-09-21 06:15 J -43181052.25 -43181052.24 -43181052.22 0.2559 0.2539

Mercury -122933-03-17 07:27 J -43179779.29 -43179779.19 -43179779.08 0.2782 0.0137

Mercury -122930-09-13 17:32 J -43178503.91 -43178503.77 -43178503.62 0.2559 0.1017

Mercury -122926-03-11 05:03 J -43177229.35 -43177229.29 -43177229.22 0.2779 0.2222

Mercury -122920-03-20 01:56 J -43175028.52 -43175028.42 -43175028.31 0.2782 0.0705

Mercury -122917-09-16 00:01 J -43173752.66 -43173752.50 -43173752.33 0.2559 0.0263

Mercury -122913-03-12 23:32 J -43172478.61 -43172478.52 -43172478.43 0.2780 0.1461

Mercury -122907-03-22 20:25 J -43170277.74 -43170277.65 -43170277.55 0.2782 0.1470

Mercury -122904-09-19 06:30 J -43169001.35 -43169001.23 -43169001.10 0.2559 0.1519

Mercury -122900-03-15 18:01 J -43167727.85 -43167727.75 -43167727.65 0.2781 0.0700

Mercury -122897-09-10 17:46 J -43166452.86 -43166452.76 -43166452.67 0.2560 0.2056

Mercury -122894-03-25 14:54 J -43165526.94 -43165526.88 -43165526.81 0.2782 0.2236

Mercury -122887-03-18 12:30 J -43162977.09 -43162976.98 -43162976.87 0.2782 0.0071

Mercury -122884-09-14 00:15 J -43161701.64 -43161701.49 -43161701.33 0.2559 0.0787

Mercury -122880-03-11 10:06 J -43160427.15 -43160427.08 -43160427.01 0.2780 0.2092

Mercury -122874-03-21 06:58 J -43158226.31 -43158226.21 -43158226.11 0.2782 0.0837

Mercury -122871-09-17 06:44 J -43156950.38 -43156950.22 -43156950.06 0.2559 0.0482

Mercury -122867-03-14 04:34 J -43155676.41 -43155676.31 -43155676.22 0.2781 0.1333

Mercury -122861-03-23 01:27 J -43153475.53 -43153475.44 -43153475.35 0.2782 0.1606

Mercury -122858-09-20 13:13 J -43152199.07 -43152198.95 -43152198.83 0.2559 0.1742

Mercury -122854-03-16 22:49 J -43150925.65 -43150925.55 -43150925.44 0.2781 0.0569

Mercury -122851-09-12 00:30 J -43149650.60 -43149650.48 -43149650.37 0.2560 0.1832

Mercury -122848-03-25 19:56 J -43148724.73 -43148724.67 -43148724.62 0.2782 0.2374

Mercury -122847-03-09 20:25 J -43148375.67 -43148375.65 -43148375.63 0.2779 0.2716

Mercury -122841-03-18 17:18 J -43146174.89 -43146174.78 -43146174.67 0.2782 0.0209

Mercury -122838-09-15 06:44 J -43144899.37 -43144899.22 -43144899.06 0.2559 0.0569

Mercury -122834-03-12 14:54 J -43143624.96 -43143624.88 -43143624.80 0.2780 0.1957

Mercury -122828-03-21 11:46 J -43141424.11 -43141424.01 -43141423.91 0.2782 0.0972

Mercury -122825-09-17 13:13 J -43140148.10 -43140147.95 -43140147.79 0.2559 0.0707

Mercury -122821-03-14 09:22 J -43138874.21 -43138874.11 -43138874.01 0.2781 0.1196

Mercury -122815-03-24 06:15 J -43136673.32 -43136673.24 -43136673.16 0.2782 0.1742

Mercury -122812-09-20 19:56 J -43135396.77 -43135396.67 -43135396.57 0.2558 0.1973

Mercury -122808-03-17 03:51 J -43134123.45 -43134123.34 -43134123.24 0.2781 0.0435

Mercury -122805-09-12 06:58 J -43132848.33 -43132848.21 -43132848.08 0.2560 0.1601

Mercury -122802-03-27 00:44 J -43131922.51 -43131922.47 -43131922.42 0.2782 0.2513

Mercury -122801-03-10 01:27 J -43131573.48 -43131573.44 -43131573.41 0.2779 0.2584

Mercury -122795-03-19 22:20 J -43129372.68 -43129372.57 -43129372.47 0.2782 0.0350

Venus -122794-06-30 07:56 J -43128905.30 -43128905.17 -43128905.04 0.2648 0.1398

Mercury -122792-09-15 13:27 J -43128097.10 -43128096.94 -43128096.78 0.2559 0.0339

Mercury -122788-03-12 19:42 J -43126822.76 -43126822.68 -43126822.60 0.2780 0.1825

Venus -122786-06-28 02:25 J -43125985.52 -43125985.40 -43125985.27 0.2652 0.1536

Mercury -122782-03-22 16:49 J -43124621.90 -43124621.80 -43124621.71 0.2782 0.1119

Mercury -122779-09-18 19:56 J -43123345.82 -43123345.67 -43123345.52 0.2559 0.0936

Mercury -122775-03-15 14:10 J -43122072.01 -43122071.91 -43122071.81 0.2781 0.1060

Mercury -122769-03-24 11:18 J -43119871.11 -43119871.03 -43119870.96 0.2782 0.1885

Mercury -122766-09-22 02:25 J -43118594.48 -43118594.40 -43118594.32 0.2558 0.2197

Mercury -122762-03-18 08:39 J -43117321.25 -43117321.14 -43117321.03 0.2782 0.0294

Mercury -122759-09-13 13:42 J -43116046.07 -43116045.93 -43116045.79 0.2559 0.1373

Mercury -122756-03-27 05:46 J -43115120.29 -43115120.26 -43115120.23 0.2782 0.2653

Mercury -122755-03-11 06:15 J -43114771.29 -43114771.24 -43114771.19 0.2779 0.2448

Mercury -122749-03-20 03:08 J -43112570.48 -43112570.37 -43112570.26 0.2782 0.0477

Mercury -122746-09-16 20:10 J -43111294.82 -43111294.66 -43111294.50 0.2559 0.0104

Mercury -122742-03-14 00:44 J -43110020.56 -43110020.47 -43110020.39 0.2780 0.1686

Mercury -122736-03-22 21:37 J -43107819.70 -43107819.60 -43107819.50 0.2782 0.1250

Mercury -122733-09-19 02:39 J -43106543.53 -43106543.39 -43106543.24 0.2558 0.1169

Mercury -122729-03-15 19:13 J -43105269.81 -43105269.70 -43105269.60 0.2781 0.0923

Mercury -122726-09-11 13:56 J -43103994.97 -43103994.92 -43103994.87 0.2560 0.2418

Mercury -122723-03-25 16:06 J -43103068.90 -43103068.83 -43103068.76 0.2782 0.2023

Mercury -122720-09-22 09:08 J -43101792.17 -43101792.12 -43101792.07 0.2558 0.2430

Mercury -122716-03-18 13:42 J -43100519.04 -43100518.93 -43100518.83 0.2782 0.0192

Mercury -122713-09-13 20:25 J -43099243.80 -43099243.65 -43099243.51 0.2560 0.1144

Mercury -122709-03-11 11:03 J -43097969.09 -43097969.04 -43097968.98 0.2779 0.2318

Venus -122704-01-07 18:30 J -43096205.87 -43096205.73 -43096205.60 0.2691 0.1501

Mercury -122703-03-21 07:56 J -43095768.27 -43095768.17 -43095768.06 0.2782 0.0623

Mercury -122700-09-17 02:54 J -43094492.54 -43094492.38 -43094492.22 0.2559 0.0132

Venus -122696-01-05 05:46 J -43093286.32 -43093286.26 -43093286.20 0.2686 0.2476

Mercury -122696-03-14 05:32 J -43093218.36 -43093218.27 -43093218.18 0.2780 0.1553

Mercury -122690-03-24 02:25 J -43091017.49 -43091017.40 -43091017.30 0.2782 0.1391

Mercury -122687-09-20 09:22 J -43089741.25 -43089741.11 -43089740.98 0.2559 0.1398

Mercury -122683-03-17 00:01 J -43088467.60 -43088467.50 -43088467.40 0.2781 0.0785

Mercury -122680-09-11 20:25 J -43087192.73 -43087192.65 -43087192.56 0.2560 0.2190

Mercury -122677-03-25 20:54 J -43086266.69 -43086266.63 -43086266.56 0.2782 0.2165

Mercury -122670-03-19 18:30 J -43083716.84 -43083716.73 -43083716.62 0.2782 0.0037

Mercury -122667-09-15 02:54 J -43082441.53 -43082441.38 -43082441.22 0.2559 0.0918

Mercury -122663-03-12 16:06 J -43081166.90 -43081166.83 -43081166.77 0.2780 0.2183

Mercury -122657-03-21 12:58 J -43078966.07 -43078965.96 -43078965.86 0.2782 0.0758
 Mercury -122654-09-18 09:37 J -43077690.26 -43077690.10 -43077689.94 0.2559 0.0365
 Mercury -122650-03-15 10:34 J -43076416.16 -43076416.06 -43076415.97 0.2780 0.1421
 Mercury -122644-03-24 07:27 J -43074215.28 -43074215.19 -43074215.10 0.2782 0.1529
 Mercury -122641-09-20 16:06 J -43072938.96 -43072938.83 -43072938.71 0.2558 0.1631
 Mercury -122637-03-17 04:49 J -43071665.40 -43071665.30 -43071665.19 0.2781 0.0657
 Mercury -122634-09-13 03:08 J -43070390.47 -43070390.37 -43070390.27 0.2560 0.1963
 Mercury -122631-03-27 01:56 J -43069464.48 -43069464.42 -43069464.36 0.2782 0.2301
 Mercury -122624-03-19 23:18 J -43066914.63 -43066914.53 -43066914.42 0.2782 0.0149
 Mercury -122621-09-15 09:37 J -43065639.25 -43065639.10 -43065638.94 0.2559 0.0685
 Mercury -122617-03-12 20:54 J -43064364.70 -43064364.63 -43064364.56 0.2780 0.2050
 Mercury -122611-03-22 17:46 J -43062163.86 -43062163.76 -43062163.66 0.2782 0.0896
 Mercury -122608-09-18 16:06 J -43060887.98 -43060887.83 -43060887.67 0.2559 0.0592
 Mercury -122604-03-15 15:22 J -43059613.96 -43059613.86 -43059613.77 0.2781 0.1283
 Mercury -122598-03-25 12:15 J -43057413.07 -43057412.99 -43057412.90 0.2783 0.1669
 Mercury -122595-09-21 22:34 J -43056136.67 -43056136.56 -43056136.45 0.2558 0.1857
 Mercury -122591-03-18 09:51 J -43054863.20 -43054863.09 -43054862.99 0.2781 0.0518
 Mercury -122588-09-13 09:51 J -43053588.21 -43053588.09 -43053587.98 0.2560 0.1736
 Mercury -122585-03-27 06:44 J -43052662.27 -43052662.22 -43052662.17 0.2783 0.2442
 Mercury -122584-03-11 07:27 J -43052313.22 -43052313.19 -43052313.17 0.2779 0.2679
 Mercury -122578-03-21 04:20 J -43050112.43 -43050112.32 -43050112.22 0.2782 0.0285
 Mercury -122575-09-16 16:20 J -43048836.98 -43048836.82 -43048836.66 0.2559 0.0458
 Mercury -122571-03-14 01:42 J -43047562.50 -43047562.43 -43047562.35 0.2780 0.1917
 Mercury -122565-03-22 22:34 J -43045361.66 -43045361.56 -43045361.45 0.2782 0.1039
 Mercury -122562-09-19 22:49 J -43044085.70 -43044085.55 -43044085.40 0.2558 0.0824
 Mercury -122558-03-16 20:10 J -43042811.76 -43042811.66 -43042811.56 0.2781 0.1148
 Mercury -122552-03-25 17:18 J -43040610.87 -43040610.78 -43040610.70 0.2783 0.1812
 Venus -122551-06-30 12:44 J -43040149.08 -43040148.97 -43040148.85 0.2651 0.1773
 Mercury -122549-09-22 05:18 J -43039334.37 -43039334.28 -43039334.19 0.2558 0.2093
 Mercury -122545-03-18 14:39 J -43038061.00 -43038060.89 -43038060.78 0.2782 0.0375

Venus -122543-06-28 07:13 J -43037229.34 -43037229.20 -43037229.06 0.2655 0.1207

Mercury -122542-09-14 16:20 J -43036785.95 -43036785.82 -43036785.69 0.2560 0.1511

Mercury -122539-03-28 11:46 J -43035860.05 -43035860.01 -43035859.98 0.2782 0.2586

Mercury -122538-03-12 12:15 J -43035511.03 -43035510.99 -43035510.95 0.2779 0.2545

Mercury -122532-03-21 09:08 J -43033310.23 -43033310.12 -43033310.01 0.2782 0.0398

Mercury -122529-09-16 23:03 J -43032034.70 -43032034.54 -43032034.38 0.2559 0.0231

Mercury -122525-03-14 06:44 J -43030760.30 -43030760.22 -43030760.14 0.2780 0.1782

Mercury -122519-03-24 03:37 J -43028559.45 -43028559.35 -43028559.25 0.2783 0.1173

Mercury -122516-09-20 05:18 J -43027283.42 -43027283.28 -43027283.13 0.2558 0.1056

Mercury -122512-03-17 01:13 J -43026009.55 -43026009.45 -43026009.35 0.2781 0.1014

Mercury -122509-09-11 16:34 J -43024734.82 -43024734.81 -43024734.80 0.2560 0.2552

Mercury -122506-03-26 22:06 J -43023808.66 -43023808.58 -43023808.50 0.2783 0.1950

Mercury -122503-09-23 11:46 J -43022532.07 -43022532.01 -43022531.94 0.2558 0.2321

Mercury -122499-03-19 19:27 J -43021258.79 -43021258.69 -43021258.58 0.2782 0.0259

Mercury -122496-09-14 23:03 J -43019983.68 -43019983.54 -43019983.40 0.2559 0.1277

Mercury -122493-03-28 16:34 J -43019057.83 -43019057.81 -43019057.79 0.2783 0.2726

Mercury -122492-03-12 17:03 J -43018708.84 -43018708.79 -43018708.73 0.2779 0.2411

Mercury -122486-03-22 13:56 J -43016508.02 -43016507.92 -43016507.81 0.2782 0.0543

Mercury -122483-09-18 05:32 J -43015232.43 -43015232.27 -43015232.11 0.2559 0.0025

Mercury -122479-03-15 11:32 J -43013958.10 -43013958.02 -43013957.93 0.2780 0.1644

Mercury -122473-03-24 08:25 J -43011757.24 -43011757.15 -43011757.05 0.2782 0.1314

Mercury -122470-09-21 12:01 J -43010481.14 -43010481.00 -43010480.86 0.2558 0.1287

Mercury -122466-03-18 06:01 J -43009207.35 -43009207.25 -43009207.15 0.2781 0.0873

Mercury -122463-09-12 23:18 J -43007932.60 -43007932.53 -43007932.47 0.2560 0.2327

Venus -122461-01-08 15:51 J -43007449.98 -43007449.84 -43007449.70 0.2688 0.1316

Mercury -122460-03-27 02:54 J -43007006.45 -43007006.38 -43007006.31 0.2783 0.2091

Mercury -122457-09-23 18:30 J -43005729.73 -43005729.73 -43005729.73 0.2558 0.2557

Venus -122453-01-06 03:08 J -43004530.39 -43004530.37 -43004530.35 0.2682 0.2656

Mercury -122453-03-20 00:30 J -43004456.59 -43004456.48 -43004456.37 0.2782 0.0102

Mercury -122450-09-16 05:46 J -43003181.41 -43003181.26 -43003181.11 0.2559 0.1042

Mercury -122446-03-13 22:06 J -43001906.64 -43001906.58 -43001906.52 0.2779 0.2275

Mercury -122440-03-22 18:58 J -42999705.82 -42999705.71 -42999705.61 0.2782 0.0680

Mercury -122437-09-18 12:15 J -42998430.15 -42998429.99 -42998429.83 0.2559 0.0239

Mercury -122433-03-15 16:34 J -42997155.90 -42997155.81 -42997155.72 0.2780 0.1511

Mercury -122427-03-25 13:27 J -42994955.03 -42994954.94 -42994954.85 0.2783 0.1455

Mercury -122424-09-21 18:44 J -42993678.85 -42993678.72 -42993678.59 0.2558 0.1515

Mercury -122420-03-18 10:49 J -42992405.15 -42992405.05 -42992404.94 0.2781 0.0740

Mercury -122417-09-13 06:01 J -42991130.34 -42991130.25 -42991130.16 0.2560 0.2093

Mercury -122414-03-28 07:56 J -42990204.24 -42990204.17 -42990204.11 0.2783 0.2232

Mercury -122407-03-21 05:18 J -42987654.39 -42987654.28 -42987654.17 0.2782 0.0046

Mercury -122404-09-16 12:30 J -42986379.14 -42986378.98 -42986378.83 0.2559 0.0814

Mercury -122400-03-14 02:54 J -42985104.45 -42985104.38 -42985104.31 0.2780 0.2139

Mercury -122394-03-23 23:46 J -42982903.61 -42982903.51 -42982903.41 0.2782 0.0813

Mercury -122391-09-19 18:58 J -42981627.87 -42981627.71 -42981627.55 0.2559 0.0475

Mercury -122387-03-16 21:22 J -42980353.70 -42980353.61 -42980353.52 0.2781 0.1369

Mercury -122381-03-25 18:15 J -42978152.83 -42978152.74 -42978152.65 0.2783 0.1592

Mercury -122378-09-23 01:27 J -42976876.56 -42976876.44 -42976876.33 0.2558 0.1753

Mercury -122374-03-19 15:51 J -42975602.95 -42975602.84 -42975602.74 0.2782 0.0598

Mercury -122371-09-14 12:30 J -42974328.09 -42974327.98 -42974327.87 0.2560 0.1868

Mercury -122368-03-28 12:44 J -42973402.02 -42973401.97 -42973401.92 0.2783 0.2372

Mercury -122367-03-12 13:27 J -42973052.95 -42973052.94 -42973052.94 0.2778 0.2774

Mercury -122361-03-21 10:20 J -42970852.18 -42970852.07 -42970851.97 0.2782 0.0206

Mercury -122358-09-17 18:58 J -42969576.86 -42969576.71 -42969576.55 0.2559 0.0583

Mercury -122354-03-15 07:42 J -42968302.25 -42968302.18 -42968302.10 0.2780 0.2009

Mercury -122348-03-24 04:34 J -42966101.41 -42966101.31 -42966101.20 0.2783 0.0962

Mercury -122345-09-20 01:27 J -42964825.59 -42964825.44 -42964825.28 0.2558 0.0709

Mercury -122341-03-17 02:10 J -42963551.50 -42963551.41 -42963551.31 0.2781 0.1237

Mercury -122335-03-26 23:03 J -42961350.62 -42961350.54 -42961350.45 0.2783 0.1735

Mercury -122332-09-23 07:56 J -42960074.27 -42960074.17 -42960074.07 0.2558 0.1979

Mercury -122328-03-19 20:39 J -42958800.75 -42958800.64 -42958800.53 0.2782 0.0458

Mercury -122325-09-14 19:13 J -42957525.82 -42957525.70 -42957525.58 0.2560 0.1634

Mercury -122322-03-29 17:32 J -42956599.81 -42956599.77 -42956599.72 0.2783 0.2515

Mercury -122321-03-12 18:15 J -42956250.77 -42956250.74 -42956250.71 0.2779 0.2636

Mercury -122315-03-22 15:08 J -42954049.98 -42954049.87 -42954049.76 0.2782 0.0319

Mercury -122312-09-18 01:42 J -42952774.59 -42952774.43 -42952774.27 0.2559 0.0347

Mercury -122308-03-15 12:44 J -42951500.05 -42951499.97 -42951499.89 0.2780 0.1869

Venus -122308-06-30 17:18 J -42951392.87 -42951392.78 -42951392.68 0.2654 0.2101

Mercury -122302-03-25 09:37 J -42949299.20 -42949299.10 -42949299.00 0.2783 0.1096

Venus -122300-06-28 11:46 J -42948473.15 -42948473.01 -42948472.86 0.2658 0.0862

Mercury -122299-09-21 08:10 J -42948023.31 -42948023.16 -42948023.01 0.2558 0.0940

Mercury -122295-03-18 07:13 J -42946749.30 -42946749.20 -42946749.10 0.2781 0.1100

Mercury -122289-03-27 04:06 J -42944548.41 -42944548.33 -42944548.25 0.2783 0.1875

Mercury -122286-09-24 14:39 J -42943271.97 -42943271.89 -42943271.81 0.2558 0.2218

Mercury -122282-03-21 01:42 J -42941998.54 -42941998.43 -42941998.33 0.2782 0.0338

Mercury -122279-09-16 01:56 J -42940723.56 -42940723.42 -42940723.29 0.2560 0.1403

Mercury -122276-03-29 22:34 J -42939797.59 -42939797.56 -42939797.53 0.2783 0.2654

Mercury -122275-03-13 23:03 J -42939448.58 -42939448.54 -42939448.49 0.2779 0.2505

Mercury -122269-03-22 19:56 J -42937247.77 -42937247.67 -42937247.56 0.2782 0.0474

Mercury -122266-09-19 08:25 J -42935972.31 -42935972.15 -42935971.99 0.2559 0.0113

Mercury -122262-03-16 17:32 J -42934697.85 -42934697.77 -42934697.68 0.2780 0.1734

Mercury -122256-03-25 14:25 J -42932496.99 -42932496.90 -42932496.80 0.2783 0.1241

Mercury -122253-09-21 14:54 J -42931221.03 -42931220.88 -42931220.74 0.2558 0.1173

Mercury -122249-03-18 12:01 J -42929947.10 -42929947.00 -42929946.90 0.2781 0.0958

Mercury -122246-09-14 01:56 J -42928672.46 -42928672.42 -42928672.38 0.2560 0.2455

Mercury -122243-03-28 08:54 J -42927746.20 -42927746.13 -42927746.05 0.2783 0.2020

Mercury -122240-09-24 21:08 J -42926469.66 -42926469.62 -42926469.57 0.2558 0.2446

Mercury -122236-03-21 06:30 J -42925196.34 -42925196.23 -42925196.12 0.2782 0.0187

Mercury -122233-09-16 08:25 J -42923921.29 -42923921.15 -42923921.00 0.2559 0.1172

Mercury -122229-03-14 04:06 J -42922646.39 -42922646.33 -42922646.28 0.2779 0.2367

Mercury -122223-03-24 00:58 J -42920445.57 -42920445.46 -42920445.36 0.2782 0.0602

Mercury -122220-09-19 14:54 J -42919170.04 -42919169.88 -42919169.71 0.2559 0.0143

Venus -122218-01-08 13:27 J -42918694.09 -42918693.94 -42918693.79 0.2684 0.1151

Mercury -122216-03-16 22:34 J -42917895.65 -42917895.56 -42917895.48 0.2780 0.1599

Mercury -122210-03-26 19:27 J -42915694.79 -42915694.69 -42915694.60 0.2783 0.1380

Mercury -122207-09-22 21:37 J -42914418.74 -42914418.60 -42914418.47 0.2558 0.1411

Mercury -122203-03-19 16:49 J -42913144.90 -42913144.80 -42913144.69 0.2781 0.0825

Mercury -122200-09-14 08:25 J -42911870.22 -42911870.15 -42911870.07 0.2560 0.2230

Mercury -122197-03-28 13:56 J -42910943.99 -42910943.92 -42910943.86 0.2783 0.2162

Mercury -122190-03-22 11:18 J -42908394.14 -42908394.03 -42908393.92 0.2782 0.0078

Mercury -122187-09-17 15:08 J -42907119.02 -42907118.87 -42907118.72 0.2559 0.0938

Mercury -122183-03-15 08:54 J -42905844.19 -42905844.13 -42905844.07 0.2779 0.2232

Mercury -122177-03-24 05:46 J -42903643.36 -42903643.26 -42903643.15 0.2783 0.0740

Mercury -122174-09-20 21:37 J -42902367.76 -42902367.60 -42902367.44 0.2559 0.0355

Mercury -122170-03-18 03:22 J -42901093.45 -42901093.36 -42901093.27 0.2781 0.1460

Mercury -122164-03-27 00:15 J -42898892.58 -42898892.49 -42898892.40 0.2783 0.1519

Mercury -122161-09-23 04:06 J -42897616.45 -42897616.33 -42897616.21 0.2558 0.1637

Mercury -122157-03-19 21:51 J -42896342.70 -42896342.59 -42896342.49 0.2781 0.0688

Mercury -122154-09-15 15:08 J -42895067.96 -42895067.87 -42895067.76 0.2560 0.1995

Mercury -122151-03-29 18:44 J -42894141.78 -42894141.72 -42894141.66 0.2783 0.2301

Mercury -122144-03-22 16:20 J -42891591.93 -42891591.82 -42891591.72 0.2782 0.0154

Mercury -122141-09-17 21:51 J -42890316.75 -42890316.59 -42890316.44 0.2559 0.0709

Mercury -122137-03-15 13:56 J -42889041.99 -42889041.92 -42889041.85 0.2780 0.2096

Mercury -122131-03-25 10:34 J -42886841.16 -42886841.06 -42886840.95 0.2783 0.0883

Mercury -122128-09-21 04:06 J -42885565.48 -42885565.33 -42885565.17 0.2558 0.0589

Mercury -122124-03-18 08:10 J -42884291.25 -42884291.16 -42884291.06 0.2781 0.1322

Mercury -122118-03-28 05:03 J -42882090.37 -42882090.29 -42882090.20 0.2783 0.1661

Mercury -122115-09-24 10:49 J -42880814.16 -42880814.05 -42880813.94 0.2558 0.1874

Mercury -122111-03-21 02:39 J -42879540.49 -42879540.39 -42879540.28 0.2782 0.0543

Mercury -122108-09-15 21:51 J -42878265.70 -42878265.59 -42878265.47 0.2560 0.1762

Mercury -122105-03-29 23:32 J -42877339.57 -42877339.52 -42877339.47 0.2783 0.2445

Mercury -122104-03-14 00:15 J -42876990.51 -42876990.49 -42876990.47 0.2778 0.2730

Mercury -122098-03-23 21:08 J -42874789.73 -42874789.62 -42874789.51 0.2782 0.0239

Mercury -122095-09-19 04:34 J -42873514.47 -42873514.31 -42873514.16 0.2559 0.0473

Mercury -122091-03-16 18:44 J -42872239.80 -42872239.72 -42872239.65 0.2780 0.1959

Mercury -122085-03-25 15:37 J -42870038.95 -42870038.85 -42870038.75 0.2783 0.1022

Mercury -122082-09-22 10:49 J -42868763.20 -42868763.05 -42868762.89 0.2558 0.0823

Mercury -122078-03-19 13:13 J -42867489.05 -42867488.95 -42867488.86 0.2781 0.1187

Mercury -122072-03-28 10:06 J -42865288.16 -42865288.08 -42865288.00 0.2783 0.1804

Mercury -122069-09-24 17:18 J -42864011.87 -42864011.78 -42864011.69 0.2558 0.2105

Mercury -122065-03-21 07:27 J -42862738.29 -42862738.19 -42862738.08 0.2782 0.0417

Venus -122065-06-30 22:06 J -42862636.63 -42862636.58 -42862636.52 0.2657 0.2467

Mercury -122062-09-17 04:34 J -42861463.44 -42861463.31 -42861463.18 0.2560 0.1527

Mercury -122059-03-31 04:34 J -42860537.35 -42860537.31 -42860537.27 0.2783 0.2588

Mercury -122058-03-15 05:03 J -42860188.32 -42860188.29 -42860188.25 0.2779 0.2595

Venus -122057-06-28 16:34 J -42859716.96 -42859716.81 -42859716.66 0.2661 0.0538

Mercury -122052-03-24 01:56 J -42857987.53 -42857987.42 -42857987.31 0.2782 0.0382

Mercury -122049-09-19 11:03 J -42856712.20 -42856712.04 -42856711.88 0.2559 0.0236

Mercury -122045-03-16 23:32 J -42855437.60 -42855437.52 -42855437.44 0.2780 0.1821

Mercury -122039-03-26 20:25 J -42853236.75 -42853236.65 -42853236.55 0.2783 0.1161

Mercury -122036-09-22 17:32 J -42851960.91 -42851960.77 -42851960.62 0.2558 0.1063

Mercury -122032-03-19 18:01 J -42850686.85 -42850686.75 -42850686.65 0.2781 0.1043

Mercury -122026-03-29 14:54 J -42848485.95 -42848485.88 -42848485.80 0.2783 0.1944

Mercury -122023-09-26 00:01 J -42847209.56 -42847209.50 -42847209.44 0.2558 0.2346

Mercury -122019-03-22 12:30 J -42845936.09 -42845935.98 -42845935.87 0.2782 0.0261

Mercury -122016-09-17 11:18 J -42844661.17 -42844661.03 -42844660.89 0.2560 0.1295

Mercury -122013-03-31 09:22 J -42843735.13 -42843735.11 -42843735.09 0.2783 0.2730

Mercury -122012-03-15 10:06 J -42843386.13 -42843386.08 -42843386.04 0.2779 0.2459

Mercury -122006-03-25 06:58 J -42841185.32 -42841185.21 -42841185.11 0.2783 0.0527

Mercury -122003-09-20 17:46 J -42839909.92 -42839909.76 -42839909.60 0.2559 0.0011

122ND MILLENNIUM BCE

This is a list of transits visible from Earth in the 122nd millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-121999-03-18 04:34 J	-42838635.40	-42838635.31	-42838635.23	0.2780	0.1686		
Mercury	-121993-03-27 01:27 J	-42836434.54	-42836434.44	-42836434.35	0.2783	0.1309		
Mercury	-121990-09-24 00:15 J	-42835158.63	-42835158.49	-42835158.35	0.2558	0.1296		
Mercury	-121986-03-20 22:49 J	-42833884.65	-42833884.55	-42833884.44	0.2781	0.0910		
Mercury	-121983-09-15 11:17 J	-42832610.09	-42832610.03	-42832609.97	0.2560	0.2353		
Mercury	-121980-03-29 19:56 J	-42831683.74	-42831683.67	-42831683.60	0.2783	0.2091		
Venus	-121975-01-08 11:03 J	-42829938.19	-42829938.04	-42829937.89	0.2680	0.1001		
Mercury	-121973-03-22 17:17 J	-42829133.89	-42829133.78	-42829133.67	0.2782	0.0131		
Mercury	-121970-09-18 17:46 J	-42827858.90	-42827858.76	-42827858.61	0.2559	0.1062		
Mercury	-121966-03-16 14:53 J	-42826583.94	-42826583.88	-42826583.82	0.2779	0.2321		
Mercury	-121960-03-25 11:46 J	-42824383.11	-42824383.01	-42824382.90	0.2783	0.0662		
Mercury	-121957-09-21 00:15 J	-42823107.65	-42823107.49	-42823107.33	0.2558	0.0240		
Mercury	-121953-03-18 09:22 J	-42821833.20	-42821833.11	-42821833.02	0.2780	0.1544		
Mercury	-121947-03-28 06:15 J	-42819632.33	-42819632.24	-42819632.15	0.2783	0.1446		
Mercury	-121944-09-24 06:58 J	-42818356.34	-42818356.21	-42818356.09	0.2558	0.1535		
Mercury	-121940-03-21 03:51 J	-42817082.45	-42817082.34	-42817082.24	0.2781	0.0766		
Mercury	-121937-09-15 18:01 J	-42815807.84	-42815807.75	-42815807.66	0.2560	0.2123		

Mercury -121934-03-31 00:44 J -42814881.53 -42814881.47 -42814881.41 0.2783 0.2231

Mercury -121927-03-23 22:20 J -42812331.68 -42812331.57 -42812331.47 0.2782 0.0088

Mercury -121924-09-19 00:29 J -42811056.63 -42811056.48 -42811056.33 0.2559 0.0825

Mercury -121920-03-16 19:41 J -42809781.74 -42809781.68 -42809781.61 0.2779 0.2188

Mercury -121914-03-26 16:34 J -42807580.91 -42807580.81 -42807580.70 0.2783 0.0812

Mercury -121911-09-22 06:58 J -42806305.37 -42806305.21 -42806305.05 0.2558 0.0474

Mercury -121907-03-19 14:10 J -42805031.00 -42805030.91 -42805030.81 0.2781 0.1410

Mercury -121901-03-28 11:03 J -42802830.12 -42802830.04 -42802829.95 0.2783 0.1593

Mercury -121898-09-25 13:27 J -42801554.06 -42801553.94 -42801553.82 0.2558 0.1767

Mercury -121894-03-22 08:39 J -42800280.24 -42800280.14 -42800280.03 0.2782 0.0626

Mercury -121891-09-17 00:29 J -42799005.58 -42799005.48 -42799005.37 0.2560 0.1891

Mercury -121888-03-31 05:32 J -42798079.32 -42798079.27 -42798079.21 0.2783 0.2378

Mercury -121881-03-24 03:08 J -42795529.48 -42795529.37 -42795529.26 0.2782 0.0167

Mercury -121878-09-20 06:58 J -42794254.36 -42794254.21 -42794254.05 0.2559 0.0599

Mercury -121874-03-18 00:44 J -42792979.54 -42792979.47 -42792979.40 0.2779 0.2047

Mercury -121868-03-26 21:37 J -42790778.70 -42790778.60 -42790778.50 0.2783 0.0946

Mercury -121865-09-22 13:41 J -42789503.09 -42789502.93 -42789502.78 0.2558 0.0710

Mercury -121861-03-19 19:13 J -42788228.80 -42788228.70 -42788228.61 0.2781 0.1272

Mercury -121855-03-29 16:05 J -42786027.92 -42786027.83 -42786027.75 0.2783 0.1732

Mercury -121852-09-25 20:10 J -42784751.76 -42784751.66 -42784751.56 0.2558 0.2005

Mercury -121848-03-22 13:27 J -42783478.04 -42783477.94 -42783477.83 0.2781 0.0495

Mercury -121845-09-17 07:13 J -42782203.32 -42782203.20 -42782203.08 0.2560 0.1657

Mercury -121842-04-01 10:34 J -42781277.11 -42781277.06 -42781277.02 0.2783 0.2521

Mercury -121841-03-15 11:03 J -42780928.06 -42780928.04 -42780928.01 0.2778 0.2686

Mercury -121835-03-25 07:56 J -42778727.28 -42778727.17 -42778727.06 0.2782 0.0307

Mercury -121832-09-20 13:56 J -42777452.08 -42777451.92 -42777451.76 0.2559 0.0358

Mercury -121828-03-18 05:32 J -42776177.35 -42776177.27 -42776177.19 0.2780 0.1910

Mercury -121822-03-28 02:25 J -42773976.50 -42773976.40 -42773976.30 0.2783 0.1088

Mercury -121819-09-23 20:10 J -42772700.80 -42772700.66 -42772700.51 0.2558 0.0951

Mercury -121815-03-21 00:01 J -42771426.60 -42771426.50 -42771426.40 0.2781 0.1128

Venus -121814-06-29 21:08 J -42770960.78 -42770960.62 -42770960.47 0.2665 0.0219

Mercury -121809-03-29 20:53 J -42769225.71 -42769225.63 -42769225.55 0.2783 0.1875

Mercury -121806-09-27 02:39 J -42767949.46 -42767949.39 -42767949.31 0.2558 0.2241

Mercury -121802-03-23 18:29 J -42766675.84 -42766675.73 -42766675.62 0.2782 0.0347

Mercury -121799-09-18 13:56 J -42765401.05 -42765400.92 -42765400.79 0.2560 0.1420

Mercury -121796-04-01 15:22 J -42764474.89 -42764474.86 -42764474.83 0.2783 0.2664

Mercury -121795-03-16 16:05 J -42764125.87 -42764125.83 -42764125.79 0.2778 0.2550

Mercury -121789-03-25 12:58 J -42761925.07 -42761924.96 -42761924.86 0.2783 0.0452

Mercury -121786-09-21 20:25 J -42760649.81 -42760649.65 -42760649.49 0.2559 0.0119

Mercury -121782-03-19 10:34 J -42759375.15 -42759375.06 -42759374.98 0.2780 0.1773

Mercury -121776-03-28 07:27 J -42757174.29 -42757174.19 -42757174.10 0.2783 0.1235

Mercury -121773-09-24 02:53 J -42755898.52 -42755898.38 -42755898.24 0.2558 0.1184

Mercury -121769-03-21 04:49 J -42754624.40 -42754624.30 -42754624.20 0.2781 0.0990

Mercury -121766-09-16 14:10 J -42753349.95 -42753349.91 -42753349.88 0.2561 0.2484

Mercury -121763-03-31 01:41 J -42752423.50 -42752423.43 -42752423.35 0.2783 0.2024

Mercury -121760-09-27 09:22 J -42751147.14 -42751147.11 -42751147.07 0.2558 0.2478

Mercury -121756-03-23 23:17 J -42749873.64 -42749873.53 -42749873.42 0.2782 0.0207

Mercury -121753-09-18 20:39 J -42748598.78 -42748598.64 -42748598.50 0.2559 0.1178

Mercury -121749-03-16 20:53 J -42747323.68 -42747323.63 -42747323.58 0.2779 0.2411

Mercury -121743-03-26 17:46 J -42745122.87 -42745122.76 -42745122.65 0.2783 0.0585

Mercury -121740-09-22 03:08 J -42743847.53 -42743847.37 -42743847.21 0.2559 0.0127

Mercury -121736-03-19 15:22 J -42742572.95 -42742572.86 -42742572.77 0.2780 0.1631

Venus -121732-01-08 08:25 J -42741182.30 -42741182.15 -42741181.99 0.2676 0.0846

Mercury -121730-03-29 12:15 J -42740372.09 -42740371.99 -42740371.90 0.2783 0.1373

Mercury -121727-09-25 09:37 J -42739096.23 -42739096.10 -42739095.97 0.2558 0.1424

Mercury -121723-03-22 09:51 J -42737822.19 -42737822.09 -42737821.99 0.2781 0.0845

Mercury -121720-09-16 20:39 J -42736547.71 -42736547.64 -42736547.56 0.2560 0.2246

Mercury -121717-03-31 06:44 J -42735621.29 -42735621.22 -42735621.16 0.2783 0.2163

Mercury -121710-03-25 04:20 J -42733071.43 -42733071.32 -42733071.22 0.2782 0.0120

Mercury -121707-09-20 03:08 J -42731796.52 -42731796.37 -42731796.22 0.2559 0.0946

Mercury -121703-03-18 01:41 J -42730521.49 -42730521.43 -42730521.36 0.2779 0.2277

Mercury -121697-03-26 22:34 J -42728320.66 -42728320.56 -42728320.45 0.2783 0.0737

Mercury -121694-09-23 09:51 J -42727045.25 -42727045.09 -42727044.93 0.2559 0.0365

Mercury -121690-03-20 20:10 J -42725770.75 -42725770.66 -42725770.57 0.2780 0.1493

Mercury -121684-03-29 17:03 J -42723569.88 -42723569.79 -42723569.70 0.2783 0.1521

Mercury -121681-09-25 16:20 J -42722293.94 -42722293.82 -42722293.70 0.2558 0.1665

Mercury -121677-03-22 14:39 J -42721019.99 -42721019.89 -42721019.78 0.2781 0.0706

Mercury -121674-09-18 03:22 J -42719745.46 -42719745.36 -42719745.27 0.2560 0.2018

Mercury -121671-04-01 11:32 J -42718819.08 -42718819.02 -42718818.96 0.2783 0.2308

Mercury -121664-03-25 09:08 J -42716269.23 -42716269.12 -42716269.01 0.2782 0.0084

Mercury -121661-09-20 09:51 J -42714994.24 -42714994.09 -42714993.93 0.2559 0.0706

Mercury -121657-03-18 06:44 J -42713719.29 -42713719.22 -42713719.15 0.2779 0.2136

Mercury -121651-03-28 03:37 J -42711518.46 -42711518.35 -42711518.25 0.2783 0.0873

Mercury -121648-09-23 16:20 J -42710242.97 -42710242.82 -42710242.66 0.2558 0.0602

Mercury -121644-03-21 01:13 J -42708968.55 -42708968.45 -42708968.36 0.2780 0.1352

Mercury -121638-03-30 22:05 J -42706767.67 -42706767.58 -42706767.50 0.2783 0.1666

Mercury -121635-09-26 22:49 J -42705491.65 -42705491.55 -42705491.44 0.2558 0.1898

Mercury -121631-03-23 19:27 J -42704217.79 -42704217.69 -42704217.58 0.2781 0.0573

Mercury -121628-09-18 10:05 J -42702943.20 -42702943.08 -42702942.97 0.2560 0.1778

Mercury -121625-04-01 16:34 J -42702016.86 -42702016.81 -42702016.77 0.2784 0.2453

Mercury -121618-03-26 13:56 J -42699467.03 -42699466.92 -42699466.81 0.2782 0.0234

Mercury -121615-09-21 16:34 J -42698191.97 -42698191.81 -42698191.65 0.2559 0.0472

Mercury -121611-03-19 11:32 J -42696917.09 -42696917.02 -42696916.94 0.2779 0.1998

Mercury -121605-03-28 08:25 J -42694716.25 -42694716.15 -42694716.05 0.2783 0.1015

Mercury -121602-09-24 23:03 J -42693440.69 -42693440.54 -42693440.39 0.2558 0.0837

Mercury -121598-03-22 06:01 J -42692166.35 -42692166.25 -42692166.15 0.2781 0.1211

Mercury -121592-03-31 02:53 J -42689965.46 -42689965.38 -42689965.30 0.2783 0.1807

Mercury -121589-09-27 05:32 J -42688689.35 -42688689.27 -42688689.18 0.2558 0.2144

Mercury -121585-03-24 00:29 J -42687415.59 -42687415.48 -42687415.37 0.2782 0.0425

Mercury -121582-09-19 16:34 J -42686140.94 -42686140.81 -42686140.68 0.2560 0.1541

Mercury -121579-04-02 21:22 J -42685214.65 -42685214.61 -42685214.57 0.2784 0.2596

Mercury -121578-03-17 22:05 J -42684865.61 -42684865.58 -42684865.55 0.2778 0.2641

Mercury -121572-03-26 18:58 J -42682664.82 -42682664.71 -42682664.61 0.2783 0.0374

Venus -121571-06-30 01:27 J -42682204.59 -42682204.44 -42682204.28 0.2668 0.0081

Mercury -121569-09-21 23:17 J -42681389.69 -42681389.53 -42681389.37 0.2559 0.0239

Mercury -121565-03-19 16:20 J -42680114.89 -42680114.82 -42680114.74 0.2780 0.1862

Mercury -121559-03-29 13:13 J -42677914.04 -42677913.95 -42677913.85 0.2783 0.1166

Mercury -121556-09-25 05:46 J -42676638.41 -42676638.26 -42676638.12 0.2558 0.1076

Mercury -121552-03-22 10:49 J -42675364.15 -42675364.05 -42675363.95 0.2781 0.1074

Mercury -121546-04-01 07:41 J -42673163.25 -42673163.18 -42673163.10 0.2783 0.1954

Mercury -121543-09-28 12:01 J -42671887.05 -42671887.00 -42671886.94 0.2558 0.2379

Mercury -121539-03-25 05:17 J -42670613.39 -42670613.28 -42670613.17 0.2782 0.0284

Mercury -121536-09-19 23:17 J -42669338.67 -42669338.53 -42669338.39 0.2560 0.1301

Mercury -121533-04-03 02:10 J -42668412.42 -42668412.41 -42668412.39 0.2784 0.2744

Mercury -121532-03-18 02:53 J -42668063.42 -42668063.38 -42668063.33 0.2778 0.2499

Mercury -121526-03-27 23:46 J -42665862.62 -42665862.51 -42665862.40 0.2783 0.0510

Mercury -121523-09-23 05:46 J -42664587.42 -42664587.26 -42664587.10 0.2559 0.0028

Mercury -121519-03-20 21:22 J -42663312.69 -42663312.61 -42663312.53 0.2780 0.1714

Mercury -121513-03-29 18:15 J -42661111.84 -42661111.74 -42661111.65 0.2783 0.1304

Mercury -121510-09-26 12:29 J -42659836.12 -42659835.98 -42659835.85 0.2558 0.1320

Mercury -121506-03-23 15:51 J -42658561.94 -42658561.84 -42658561.74 0.2781 0.0930

Mercury -121503-09-17 23:32 J -42657287.58 -42657287.52 -42657287.47 0.2561 0.2372

Mercury -121500-04-01 12:44 J -42656361.04 -42656360.97 -42656360.90 0.2784 0.2095

Mercury -121493-03-25 10:20 J -42653811.18 -42653811.07 -42653810.97 0.2782 0.0175

Mercury -121490-09-21 06:01 J -42652536.40 -42652536.25 -42652536.10 0.2560 0.1061

Venus -121489-01-09 06:29 J -42652426.39 -42652426.23 -42652426.08 0.2672 0.0724

Mercury -121486-03-19 07:41 J -42651261.23 -42651261.18 -42651261.12 0.2779 0.2364

Mercury -121480-03-28 04:34 J -42649060.41 -42649060.31 -42649060.20 0.2783 0.0660

Mercury -121477-09-23 12:29 J -42647785.14 -42647784.98 -42647784.82 0.2559 0.0254

Mercury -121473-03-21 02:10 J -42646510.49 -42646510.41 -42646510.32 0.2780 0.1577

Mercury -121467-03-30 23:03 J -42644309.63 -42644309.54 -42644309.45 0.2783 0.1448

Mercury -121464-09-26 18:58 J -42643033.84 -42643033.71 -42643033.58 0.2558 0.1557

Mercury -121460-03-23 20:39 J -42641759.74 -42641759.64 -42641759.54 0.2781 0.0787

Mercury -121457-09-18 06:01 J -42640485.33 -42640485.25 -42640485.16 0.2560 0.2134

Mercury -121454-04-02 17:32 J -42639558.83 -42639558.77 -42639558.71 0.2784 0.2240

Mercury -121447-03-26 15:08 J -42637008.98 -42637008.87 -42637008.76 0.2782 0.0025

Mercury -121444-09-21 12:29 J -42635734.13 -42635733.98 -42635733.82 0.2559 0.0829

Mercury -121440-03-19 12:44 J -42634459.03 -42634458.97 -42634458.91 0.2779 0.2222

Mercury -121434-03-29 09:37 J -42632258.21 -42632258.10 -42632258.00 0.2783 0.0801

Mercury -121431-09-24 18:58 J -42630982.86 -42630982.71 -42630982.55 0.2558 0.0491

Mercury -121427-03-22 07:13 J -42629708.30 -42629708.20 -42629708.11 0.2780 0.1439

Mercury -121421-03-31 03:51 J -42627507.42 -42627507.34 -42627507.25 0.2784 0.1594

Mercury -121418-09-28 01:41 J -42626231.55 -42626231.43 -42626231.32 0.2558 0.1799

Mercury -121414-03-25 01:27 J -42624957.54 -42624957.44 -42624957.33 0.2781 0.0655

Mercury -121411-09-19 12:44 J -42623683.08 -42623682.97 -42623682.86 0.2560 0.1896

Mercury -121408-04-02 22:20 J -42622756.62 -42622756.57 -42622756.51 0.2784 0.2388

Mercury -121401-03-26 19:56 J -42620206.78 -42620206.67 -42620206.56 0.2782 0.0166

Mercury -121398-09-22 19:27 J -42618931.85 -42618931.69 -42618931.54 0.2559 0.0585

Mercury -121394-03-20 17:32 J -42617656.84 -42617656.77 -42617656.70 0.2779 0.2082

Mercury -121388-03-29 14:25 J -42615456.00 -42615455.90 -42615455.80 0.2783 0.0942

Mercury -121385-09-25 01:56 J -42614180.58 -42614180.42 -42614180.27 0.2558 0.0734

Mercury -121381-03-22 12:01 J -42612906.09 -42612906.00 -42612905.90 0.2780 0.1295

Mercury -121375-04-01 08:53 J -42610705.21 -42610705.13 -42610705.05 0.2783 0.1734

Mercury -121372-09-28 08:10 J -42609429.25 -42609429.16 -42609429.06 0.2558 0.2039

Mercury -121368-03-25 06:29 J -42608155.34 -42608155.23 -42608155.12 0.2782 0.0503

Mercury -121365-09-19 19:27 J -42606880.81 -42606880.69 -42606880.57 0.2560 0.1659

Mercury -121362-04-04 03:22 J -42605954.40 -42605954.36 -42605954.32 0.2784 0.2529

Mercury -121361-03-18 04:05 J -42605605.35 -42605605.33 -42605605.32 0.2778 0.2729

Mercury -121355-03-28 00:58 J -42603404.57 -42603404.46 -42603404.36 0.2782 0.0309

Mercury -121352-09-23 01:56 J -42602129.58 -42602129.42 -42602129.26 0.2559 0.0346

Mercury -121348-03-20 22:20 J -42600854.64 -42600854.57 -42600854.49 0.2779 0.1946

Mercury -121342-03-30 19:27 J -42598653.79 -42598653.69 -42598653.60 0.2783 0.1094

Mercury -121339-09-26 08:25 J -42597378.30 -42597378.15 -42597378.00 0.2558 0.0976

Mercury -121335-03-23 16:49 J -42596103.89 -42596103.80 -42596103.70 0.2781 0.1156

Mercury -121329-04-01 13:41 J -42593903.00 -42593902.93 -42593902.85 0.2784 0.1887

Venus -121328-06-30 05:46 J -42593448.41 -42593448.26 -42593448.10 0.2671 0.0385

Mercury -121326-09-29 14:53 J -42592626.95 -42592626.88 -42592626.81 0.2558 0.2282

Mercury -121322-03-26 11:17 J -42591353.14 -42591353.03 -42591352.92 0.2782 0.0361

Mercury -121319-09-21 01:56 J -42590078.55 -42590078.42 -42590078.28 0.2560 0.1425

Mercury -121316-04-04 08:10 J -42589152.18 -42589152.16 -42589152.13 0.2784 0.2680

Mercury -121315-03-19 08:53 J -42588803.17 -42588803.13 -42588803.09 0.2778 0.2589

Mercury -121309-03-28 05:46 J -42586602.37 -42586602.26 -42586602.15 0.2783 0.0435

Mercury -121306-09-24 08:39 J -42585327.30 -42585327.14 -42585326.98 0.2559 0.0105

Mercury -121302-03-22 03:22 J -42584052.44 -42584052.36 -42584052.28 0.2779 0.1802

Mercury -121296-03-31 00:15 J -42581851.59 -42581851.49 -42581851.40 0.2783 0.1232

Mercury -121293-09-26 15:08 J -42580576.02 -42580575.87 -42580575.73 0.2558 0.1213

Mercury -121289-03-23 21:51 J -42579301.69 -42579301.59 -42579301.49 0.2781 0.1010

Mercury -121286-09-19 02:10 J -42578027.44 -42578027.41 -42578027.38 0.2561 0.2494

Mercury -121283-04-02 18:44 J -42577100.80 -42577100.72 -42577100.65 0.2784 0.2030

Mercury -121280-09-29 21:37 J -42575824.63 -42575824.60 -42575824.58 0.2557 0.2520

Mercury -121276-03-26 16:20 J -42574550.93 -42574550.82 -42574550.72 0.2782 0.0243

Mercury -121273-09-21 08:39 J -42573276.28 -42573276.14 -42573275.99 0.2560 0.1181

Mercury -121269-03-19 13:41 J -42572000.97 -42572000.93 -42572000.88 0.2778 0.2452

Mercury -121263-03-29 10:34 J -42569800.16 -42569800.06 -42569799.95 0.2783 0.0584

Mercury -121260-09-24 15:08 J -42568525.03 -42568524.87 -42568524.71 0.2559 0.0141

Mercury -121256-03-22 08:10 J -42567250.24 -42567250.16 -42567250.07 0.2780 0.1662

Mercury -121250-04-01 05:03 J -42565049.38 -42565049.29 -42565049.19 0.2783 0.1377

Mercury -121247-09-27 21:37 J -42563773.73 -42563773.60 -42563773.46 0.2558 0.1456

Venus -121246-01-09 03:51 J -42563670.50 -42563670.34 -42563670.18 0.2669 0.0567

Mercury -121243-03-25 02:39 J -42562499.49 -42562499.39 -42562499.29 0.2781 0.0867

Mercury -121240-09-19 08:53 J -42561225.21 -42561225.13 -42561225.06 0.2561 0.2258

Mercury -121237-04-02 23:32 J -42560298.58 -42560298.52 -42560298.45 0.2784 0.2175

Mercury -121230-03-27 21:08 J -42557748.73 -42557748.62 -42557748.51 0.2782 0.0073

Mercury -121227-09-22 15:22 J -42556474.01 -42556473.86 -42556473.71 0.2560 0.0937

Mercury -121223-03-20 18:44 J -42555198.78 -42555198.72 -42555198.66 0.2779 0.2310

Mercury -121217-03-29 15:37 J -42552997.96 -42552997.85 -42552997.75 0.2783 0.0729

Mercury -121214-09-25 21:51 J -42551722.75 -42551722.59 -42551722.43 0.2559 0.0378

Mercury -121210-03-23 13:13 J -42550448.04 -42550447.95 -42550447.86 0.2780 0.1521

Mercury -121204-04-01 10:05 J -42548247.17 -42548247.08 -42548246.99 0.2783 0.1528

Mercury -121201-09-28 04:20 J -42546971.44 -42546971.32 -42546971.20 0.2558 0.1693

Mercury -121197-03-25 07:27 J -42545697.29 -42545697.19 -42545697.08 0.2781 0.0732

Mercury -121194-09-20 15:22 J -42544422.95 -42544422.86 -42544422.76 0.2561 0.2017

Mercury -121191-04-04 04:20 J -42543496.37 -42543496.32 -42543496.26 0.2784 0.2323

Mercury -121184-03-28 01:56 J -42540946.53 -42540946.42 -42540946.31 0.2782 0.0073

Mercury -121181-09-22 21:51 J -42539671.74 -42539671.59 -42539671.43 0.2559 0.0704

Mercury -121177-03-20 23:32 J -42538396.58 -42538396.52 -42538396.45 0.2779 0.2167

Mercury -121171-03-30 20:25 J -42536195.75 -42536195.65 -42536195.55 0.2783 0.0869

Mercury -121168-09-26 04:34 J -42534920.47 -42534920.31 -42534920.16 0.2558 0.0622

Mercury -121164-03-23 18:01 J -42533645.84 -42533645.75 -42533645.66 0.2780 0.1375

Mercury -121158-04-02 14:53 J -42531444.97 -42531444.88 -42531444.79 0.2784 0.1669

Mercury -121155-09-29 11:03 J -42530169.15 -42530169.04 -42530168.94 0.2558 0.1939

Mercury -121151-03-26 12:29 J -42528895.09 -42528894.98 -42528894.88 0.2781 0.0585

Mercury -121148-09-20 22:05 J -42527620.69 -42527620.58 -42527620.46 0.2560 0.1778

Mercury -121145-04-04 09:22 J -42526694.16 -42526694.11 -42526694.06 0.2784 0.2467

Mercury -121138-03-29 06:58 J -42524144.32 -42524144.21 -42524144.11 0.2782 0.0246

Mercury -121135-09-24 04:34 J -42522869.46 -42522869.31 -42522869.15 0.2559 0.0462

Mercury -121131-03-22 04:34 J -42521594.39 -42521594.31 -42521594.24 0.2779 0.2027

Mercury -121125-03-31 01:13 J -42519393.55 -42519393.45 -42519393.35 0.2783 0.1018

Mercury -121122-09-27 11:03 J -42518118.19 -42518118.04 -42518117.88 0.2558 0.0869

Mercury -121118-03-24 23:03 J -42516843.64 -42516843.54 -42516843.45 0.2780 0.1238

Mercury -121112-04-02 19:41 J -42514642.76 -42514642.68 -42514642.60 0.2784 0.1812

Mercury -121109-09-29 17:32 J -42513366.85 -42513366.77 -42513366.68 0.2558 0.2183

Mercury -121105-03-26 17:17 J -42512092.89 -42512092.78 -42512092.67 0.2782 0.0437

Mercury -121102-09-22 04:49 J -42510818.43 -42510818.30 -42510818.17 0.2560 0.1537

Mercury -121099-04-05 14:10 J -42509891.94 -42509891.91 -42509891.87 0.2784 0.2614

Mercury -121098-03-20 14:53 J -42509542.90 -42509542.88 -42509542.85 0.2778 0.2676

Mercury -121092-03-29 11:46 J -42507342.12 -42507342.01 -42507341.90 0.2783 0.0364

Mercury -121089-09-24 11:17 J -42506067.19 -42506067.03 -42506066.87 0.2559 0.0216

Mercury -121085-03-22 09:22 J -42504792.19 -42504792.11 -42504792.03 0.2779 0.1886

Venus -121085-06-30 10:05 J -42504692.23 -42504692.08 -42504691.93 0.2674 0.0664

Mercury -121079-04-01 06:15 J -42502591.34 -42502591.24 -42502591.14 0.2783 0.1162

Venus -121077-06-28 04:20 J -42501772.39 -42501772.32 -42501772.26 0.2679 0.2423

Mercury -121076-09-27 17:46 J -42501315.90 -42501315.76 -42501315.61 0.2558 0.1112

Mercury -121072-03-25 03:51 J -42500041.44 -42500041.34 -42500041.24 0.2781 0.1094

Mercury -121066-04-04 00:44 J -42497840.55 -42497840.47 -42497840.40 0.2784 0.1962

Mercury -121063-10-01 00:15 J -42496564.53 -42496564.49 -42496564.44 0.2558 0.2433

Mercury -121059-03-27 22:20 J -42495290.68 -42495290.57 -42495290.47 0.2782 0.0308

Mercury -121056-09-22 11:32 J -42494016.16 -42494016.02 -42494015.89 0.2560 0.1297

Mercury -121053-04-05 19:13 J -42493089.71 -42493089.70 -42493089.69 0.2784 0.2763

Mercury -121052-03-20 19:41 J -42492740.72 -42492740.68 -42492740.63 0.2778 0.2537

Mercury -121046-03-30 16:34 J -42490539.91 -42490539.81 -42490539.70 0.2783 0.0519

Mercury -121043-09-25 18:01 J -42489264.91 -42489264.75 -42489264.59 0.2559 0.0040

Mercury -121039-03-23 14:10 J -42487989.99 -42487989.91 -42487989.82 0.2779 0.1745

Mercury -121033-04-01 11:03 J -42485789.13 -42485789.04 -42485788.94 0.2784 0.1310

Mercury -121030-09-29 00:29 J -42484513.62 -42484513.48 -42484513.34 0.2558 0.1354

Mercury -121026-03-26 08:39 J -42483239.24 -42483239.14 -42483239.04 0.2781 0.0947

Mercury -121023-09-20 11:32 J -42481965.07 -42481965.02 -42481964.96 0.2561 0.2376

Mercury -121020-04-04 05:32 J -42481038.34 -42481038.27 -42481038.20 0.2784 0.2109

Mercury -121013-03-28 03:08 J -42478488.48 -42478488.37 -42478488.26 0.2782 0.0153

Mercury -121010-09-23 18:01 J -42477213.90 -42477213.75 -42477213.60 0.2560 0.1055

Mercury -121006-03-22 00:44 J -42475938.52 -42475938.47 -42475938.42 0.2778 0.2395
 Venus -121003-01-09 01:56 J -42474914.58 -42474914.42 -42474914.25 0.2665 0.0491

121ST MILLENNIUM BCE

This is a list of transits visible from Earth in the 121st millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-121000-03-30 21:37 J	-42473737.71	-42473737.60	-42473737.50	0.2783	0.0657		
Mercury	-120997-09-26 00:29 J	-42472462.64	-42472462.48	-42472462.31	0.2559	0.0284		
Mercury	-120993-03-23 19:13 J	-42471187.79	-42471187.70	-42471187.62	0.2780	0.1601		
Mercury	-120987-04-02 16:05 J	-42468986.93	-42468986.83	-42468986.74	0.2784	0.1459		
Mercury	-120984-09-29 07:13 J	-42467711.33	-42467711.20	-42467711.08	0.2558	0.1601		
Mercury	-120980-03-26 13:27 J	-42466437.04	-42466436.94	-42466436.83	0.2781	0.0809		
Mercury	-120977-09-20 18:15 J	-42465162.83	-42465162.74	-42465162.66	0.2561	0.2142		
Mercury	-120974-04-05 10:20 J	-42464236.13	-42464236.07	-42464236.00	0.2784	0.2259		
Mercury	-120967-03-29 07:56 J	-42461686.28	-42461686.17	-42461686.06	0.2782	0.0068		
Mercury	-120964-09-24 00:44 J	-42460411.62	-42460411.47	-42460411.32	0.2560	0.0811		
Mercury	-120960-03-22 05:32 J	-42459136.33	-42459136.27	-42459136.21	0.2778	0.2255		
Mercury	-120954-04-01 02:25 J	-42456935.50	-42456935.40	-42456935.30	0.2783	0.0799		
Mercury	-120951-09-27 07:13 J	-42455660.36	-42455660.20	-42455660.04	0.2558	0.0521		
Mercury	-120947-03-25 00:01 J	-42454385.59	-42454385.50	-42454385.41	0.2780	0.1458		
Mercury	-120941-04-02 20:53 J	-42452184.72	-42452184.63	-42452184.54	0.2784	0.1603		

Mercury -120938-09-30 13:41 J -42450909.04 -42450908.93 -42450908.82 0.2558 0.1842

Mercury -120934-03-27 18:29 J -42449634.84 -42449634.73 -42449634.63 0.2781 0.0661

Mercury -120931-09-22 00:44 J -42448360.57 -42448360.47 -42448360.36 0.2561 0.1898

Mercury -120928-04-05 15:22 J -42447433.91 -42447433.86 -42447433.81 0.2784 0.2404

Mercury -120921-03-29 12:58 J -42444884.07 -42444883.96 -42444883.86 0.2782 0.0172

Mercury -120918-09-25 07:13 J -42443609.35 -42443609.20 -42443609.04 0.2559 0.0575

Mercury -120914-03-23 10:20 J -42442334.13 -42442334.07 -42442334.00 0.2779 0.2115

Mercury -120908-04-01 07:13 J -42440133.30 -42440133.20 -42440133.09 0.2783 0.0951

Mercury -120905-09-27 13:56 J -42438858.08 -42438857.92 -42438857.77 0.2558 0.0758

Mercury -120901-03-25 04:49 J -42437583.39 -42437583.30 -42437583.20 0.2780 0.1316

Mercury -120895-04-04 01:41 J -42435382.51 -42435382.43 -42435382.34 0.2784 0.1750

Mercury -120892-09-30 20:25 J -42434106.74 -42434106.65 -42434106.56 0.2558 0.2088

Mercury -120888-03-27 23:17 J -42432832.64 -42432832.53 -42432832.42 0.2781 0.0516

Mercury -120885-09-22 07:27 J -42431558.31 -42431558.19 -42431558.07 0.2560 0.1652

Mercury -120882-04-06 20:10 J -42430631.70 -42430631.66 -42430631.62 0.2784 0.2551

Mercury -120881-03-20 20:53 J -42430282.64 -42430282.63 -42430282.62 0.2777 0.2762

Mercury -120875-03-30 17:46 J -42428081.87 -42428081.76 -42428081.65 0.2782 0.0288

Mercury -120872-09-25 13:56 J -42426807.08 -42426806.92 -42426806.75 0.2559 0.0331

Mercury -120868-03-23 15:22 J -42425531.94 -42425531.86 -42425531.78 0.2779 0.1966

Mercury -120862-04-02 12:15 J -42423331.09 -42423330.99 -42423330.89 0.2783 0.1096

Mercury -120859-09-28 20:39 J -42422055.79 -42422055.64 -42422055.50 0.2558 0.1007

Mercury -120855-03-26 09:51 J -42420781.19 -42420781.09 -42420780.99 0.2780 0.1170

Mercury -120849-04-04 06:44 J -42418580.30 -42418580.22 -42418580.15 0.2784 0.1898

Mercury -120846-10-02 02:53 J -42417304.44 -42417304.38 -42417304.31 0.2557 0.2331

Mercury -120842-03-29 04:20 J -42416030.43 -42416030.32 -42416030.22 0.2782 0.0385

Venus -120842-07-01 14:39 J -42415936.04 -42415935.89 -42415935.75 0.2678 0.0960

Mercury -120839-09-23 14:10 J -42414756.04 -42414755.91 -42414755.77 0.2560 0.1408

Mercury -120836-04-07 01:13 J -42413829.48 -42413829.45 -42413829.43 0.2784 0.2700

Mercury -120835-03-22 01:56 J -42413480.46 -42413480.42 -42413480.39 0.2778 0.2623

Venus -120834-06-29 08:39 J -42413016.23 -42413016.14 -42413016.05 0.2682 0.2150

Mercury -120829-03-30 22:34 J -42411279.66 -42411279.56 -42411279.45 0.2783 0.0440

Mercury -120826-09-26 20:39 J -42410004.80 -42410004.64 -42410004.48 0.2559 0.0090

Mercury -120822-03-24 20:10 J -42408729.74 -42408729.66 -42408729.58 0.2779 0.1825

Mercury -120816-04-02 17:03 J -42406528.89 -42406528.79 -42406528.69 0.2783 0.1240

Mercury -120813-09-29 03:22 J -42405253.50 -42405253.36 -42405253.22 0.2558 0.1260

Mercury -120809-03-26 14:39 J -42403978.99 -42403978.89 -42403978.79 0.2781 0.1025

Mercury -120806-09-21 14:10 J -42402704.94 -42402704.91 -42402704.87 0.2561 0.2497

Mercury -120803-04-05 11:32 J -42401778.09 -42401778.02 -42401777.95 0.2784 0.2044

Mercury -120796-03-29 09:08 J -42399228.23 -42399228.12 -42399228.01 0.2782 0.0220

Mercury -120793-09-23 20:53 J -42397953.78 -42397953.63 -42397953.49 0.2560 0.1167

Mercury -120789-03-22 06:44 J -42396678.27 -42396678.22 -42396678.18 0.2778 0.2479

Mercury -120783-04-01 03:37 J -42394477.46 -42394477.35 -42394477.25 0.2783 0.0588

Mercury -120780-09-27 03:22 J -42393202.52 -42393202.36 -42393202.20 0.2559 0.0173

Mercury -120776-03-25 01:13 J -42391927.54 -42391927.45 -42391927.37 0.2779 0.1683

Mercury -120770-04-03 21:51 J -42389726.68 -42389726.59 -42389726.49 0.2784 0.1390

Mercury -120767-09-30 09:51 J -42388451.22 -42388451.09 -42388450.96 0.2558 0.1501

Mercury -120763-03-27 19:27 J -42387176.79 -42387176.69 -42387176.58 0.2781 0.0888

Venus -120760-01-09 00:01 J -42386158.66 -42386158.50 -42386158.34 0.2661 0.0392

Mercury -120760-09-21 20:53 J -42385902.70 -42385902.63 -42385902.55 0.2561 0.2253

Mercury -120757-04-05 16:20 J -42384975.88 -42384975.82 -42384975.75 0.2784 0.2193

Mercury -120750-03-30 13:56 J -42382426.03 -42382425.92 -42382425.81 0.2782 0.0098

Mercury -120747-09-25 03:22 J -42381151.51 -42381151.36 -42381151.21 0.2560 0.0923

Mercury -120743-03-23 11:32 J -42379876.07 -42379876.02 -42379875.96 0.2778 0.2337

Mercury -120737-04-01 08:25 J -42377675.25 -42377675.15 -42377675.05 0.2783 0.0729

Mercury -120734-09-28 09:51 J -42376400.24 -42376400.09 -42376399.93 0.2559 0.0420

Mercury -120730-03-26 06:01 J -42375125.34 -42375125.25 -42375125.16 0.2779 0.1537

Mercury -120724-04-04 02:53 J -42372924.47 -42372924.38 -42372924.29 0.2784 0.1536

Mercury -120721-09-30 16:34 J -42371648.93 -42371648.81 -42371648.69 0.2558 0.1746

Mercury -120717-03-28 00:29 J -42370374.59 -42370374.48 -42370374.38 0.2781 0.0736

Mercury -120714-09-23 03:37 J -42369100.45 -42369100.35 -42369100.25 0.2561 0.2011

Mercury -120711-04-06 21:22 J -42368173.67 -42368173.61 -42368173.56 0.2784 0.2341

Mercury -120704-03-30 18:58 J -42365623.82 -42365623.71 -42365623.61 0.2782 0.0114

Mercury -120701-09-25 10:05 J -42364349.23 -42364349.08 -42364348.92 0.2559 0.0674

Mercury -120697-03-23 16:34 J -42363073.88 -42363073.81 -42363073.75 0.2778 0.2197

Mercury -120691-04-02 13:13 J -42360873.05 -42360872.95 -42360872.84 0.2783 0.0881

Mercury -120688-09-28 16:34 J -42359597.96 -42359597.81 -42359597.65 0.2558 0.0664

Mercury -120684-03-26 10:49 J -42358323.14 -42358323.05 -42358322.95 0.2780 0.1395

Mercury -120678-04-05 07:41 J -42356122.26 -42356122.18 -42356122.09 0.2784 0.1685

Mercury -120675-10-01 23:03 J -42354846.64 -42354846.54 -42354846.44 0.2558 0.1992

Mercury -120671-03-29 05:17 J -42353572.38 -42353572.28 -42353572.17 0.2781 0.0591

Mercury -120668-09-23 10:20 J -42352298.19 -42352298.07 -42352297.96 0.2561 0.1766

Mercury -120665-04-07 02:10 J -42351371.46 -42351371.41 -42351371.36 0.2784 0.2488

Mercury -120658-03-31 23:46 J -42348821.62 -42348821.51 -42348821.40 0.2782 0.0219

Mercury -120655-09-26 16:49 J -42347546.96 -42347546.80 -42347546.64 0.2559 0.0433

Mercury -120651-03-24 21:22 J -42346271.68 -42346271.61 -42346271.54 0.2779 0.2050

Mercury -120645-04-02 18:15 J -42344070.84 -42344070.74 -42344070.64 0.2783 0.1026

Mercury -120642-09-29 23:17 J -42342795.68 -42342795.53 -42342795.38 0.2558 0.0911

Mercury -120638-03-27 15:51 J -42341520.94 -42341520.84 -42341520.75 0.2780 0.1250

Mercury -120632-04-05 12:44 J -42339320.05 -42339319.97 -42339319.89 0.2784 0.1833

Mercury -120629-10-02 05:46 J -42338044.33 -42338044.26 -42338044.18 0.2557 0.2245

Mercury -120625-03-29 10:20 J -42336770.18 -42336770.07 -42336769.97 0.2781 0.0457

Mercury -120622-09-24 16:49 J -42335495.93 -42335495.80 -42335495.67 0.2561 0.1526

Mercury -120619-04-08 06:58 J -42334569.24 -42334569.21 -42334569.17 0.2784 0.2642

Mercury -120618-03-23 07:41 J -42334220.20 -42334220.18 -42334220.16 0.2777 0.2707

Mercury -120612-04-01 04:34 J -42332019.41 -42332019.31 -42332019.20 0.2783 0.0375

Mercury -120609-09-26 23:32 J -42330744.68 -42330744.52 -42330744.36 0.2559 0.0185

Mercury -120605-03-25 02:10 J -42329469.48 -42329469.41 -42329469.33 0.2779 0.1908

Mercury -120599-04-03 23:03 J -42327268.64 -42327268.54 -42327268.44 0.2783 0.1173

Venus -120599-07-01 18:44 J -42327179.86 -42327179.72 -42327179.59 0.2681 0.1216

Mercury -120596-09-30 06:01 J -42325993.40 -42325993.25 -42325993.11 0.2558 0.1156

Mercury -120592-03-27 20:39 J -42324718.74 -42324718.64 -42324718.54 0.2780 0.1103

Venus -120591-06-29 12:44 J -42324260.08 -42324259.97 -42324259.87 0.2686 0.1907

Mercury -120586-04-06 17:32 J -42322517.85 -42322517.77 -42322517.70 0.2784 0.1981

Mercury -120583-10-03 12:29 J -42321242.02 -42321241.98 -42321241.95 0.2557 0.2486

Mercury -120579-03-30 15:08 J -42319967.98 -42319967.87 -42319967.76 0.2782 0.0298

Mercury -120576-09-24 23:32 J -42318693.66 -42318693.52 -42318693.38 0.2560 0.1277

Mercury -120572-03-23 12:44 J -42317418.01 -42317417.97 -42317417.93 0.2777 0.2563

Mercury -120566-04-02 09:37 J -42315217.21 -42315217.10 -42315217.00 0.2783 0.0519

Mercury -120563-09-28 06:01 J -42313942.41 -42313942.25 -42313942.09 0.2559 0.0064

Mercury -120559-03-26 07:13 J -42312667.29 -42312667.20 -42312667.12 0.2779 0.1763

Mercury -120553-04-04 04:05 J -42310466.43 -42310466.33 -42310466.24 0.2783 0.1327

Mercury -120550-10-01 12:29 J -42309191.11 -42309190.98 -42309190.84 0.2558 0.1400

Mercury -120546-03-29 01:27 J -42307916.54 -42307916.44 -42307916.33 0.2781 0.0961

Mercury -120543-09-22 23:46 J -42306642.57 -42306642.51 -42306642.45 0.2562 0.2367

Mercury -120540-04-06 22:20 J -42305715.63 -42305715.57 -42305715.50 0.2784 0.2133

Mercury -120533-03-30 19:56 J -42303165.78 -42303165.67 -42303165.56 0.2782 0.0161

Mercury -120530-09-26 06:15 J -42301891.39 -42301891.24 -42301891.09 0.2560 0.1026

Mercury -120526-03-24 17:32 J -42300615.82 -42300615.77 -42300615.72 0.2777 0.2420

Mercury -120520-04-02 14:25 J -42298415.01 -42298414.90 -42298414.80 0.2783 0.0659

Venus -120517-01-09 22:05 J -42297402.75 -42297402.58 -42297402.42 0.2657 0.0312

Mercury -120517-09-28 12:44 J -42297140.13 -42297139.97 -42297139.81 0.2559 0.0310

Mercury -120513-03-26 12:01 J -42295865.09 -42295865.00 -42295864.91 0.2779 0.1615

Mercury -120507-04-05 08:53 J -42293664.22 -42293664.13 -42293664.04 0.2784 0.1471

Mercury -120504-10-01 19:13 J -42292388.82 -42292388.70 -42292388.58 0.2558 0.1647

Mercury -120500-03-29 06:29 J -42291114.34 -42291114.23 -42291114.13 0.2781 0.0811

Mercury -120497-09-23 06:29 J -42289840.32 -42289840.23 -42289840.14 0.2561 0.2118

Mercury -120494-04-08 03:22 J -42288913.42 -42288913.36 -42288913.30 0.2784 0.2280

Mercury -120487-04-01 00:44 J -42286363.57 -42286363.47 -42286363.36 0.2782 0.0119

Mercury -120484-09-26 12:58 J -42285089.12 -42285088.96 -42285088.81 0.2560 0.0786

Mercury -120480-03-24 22:34 J -42283813.62 -42283813.56 -42283813.50 0.2778 0.2276

Mercury -120474-04-03 19:13 J -42281612.80 -42281612.70 -42281612.59 0.2783 0.0811

Mercury -120471-09-29 19:27 J -42280337.85 -42280337.69 -42280337.53 0.2559 0.0561

Mercury -120467-03-27 16:49 J -42279062.89 -42279062.80 -42279062.70 0.2779 0.1475

Mercury -120461-04-05 13:41 J -42276862.02 -42276861.93 -42276861.84 0.2784 0.1616

Mercury -120458-10-03 01:56 J -42275586.53 -42275586.42 -42275586.31 0.2558 0.1901

Mercury -120454-03-30 11:17 J -42274312.13 -42274312.03 -42274311.92 0.2781 0.0665

Mercury -120451-09-24 12:58 J -42273038.07 -42273037.96 -42273037.85 0.2561 0.1880

Mercury -120448-04-08 08:10 J -42272111.21 -42272111.16 -42272111.11 0.2784 0.2427

Mercury -120441-04-01 05:46 J -42269561.37 -42269561.26 -42269561.15 0.2782 0.0148

Mercury -120438-09-27 19:41 J -42268286.84 -42268286.68 -42268286.53 0.2560 0.0538

Mercury -120434-03-26 03:22 J -42267011.43 -42267011.36 -42267011.29 0.2778 0.2131

Mercury -120428-04-04 00:15 J -42264810.59 -42264810.49 -42264810.39 0.2783 0.0959

Mercury -120425-09-30 02:10 J -42263535.57 -42263535.41 -42263535.26 0.2558 0.0813

Mercury -120421-03-27 21:51 J -42262260.69 -42262260.59 -42262260.50 0.2780 0.1325

Mercury -120415-04-06 18:29 J -42260059.81 -42260059.73 -42260059.64 0.2784 0.1770

Mercury -120412-10-03 08:39 J -42258784.23 -42258784.14 -42258784.06 0.2558 0.2148

Mercury -120408-03-30 16:20 J -42257509.93 -42257509.82 -42257509.72 0.2781 0.0528

Mercury -120405-09-24 19:41 J -42256235.80 -42256235.68 -42256235.56 0.2561 0.1632

Mercury -120402-04-09 12:58 J -42255308.99 -42255308.96 -42255308.92 0.2784 0.2578

Mercury -120395-04-02 10:34 J -42252759.16 -42252759.06 -42252758.95 0.2782 0.0308

Mercury -120392-09-28 02:10 J -42251484.57 -42251484.41 -42251484.25 0.2559 0.0289

Mercury -120388-03-26 08:10 J -42250209.23 -42250209.16 -42250209.08 0.2778 0.1989

Mercury -120382-04-05 05:03 J -42248008.39 -42248008.29 -42248008.19 0.2783 0.1108

Mercury -120379-10-01 08:39 J -42246733.29 -42246733.14 -42246732.99 0.2558 0.1056

Mercury -120375-03-29 02:39 J -42245458.49 -42245458.39 -42245458.29 0.2780 0.1178

Mercury -120369-04-06 23:32 J -42243257.60 -42243257.52 -42243257.44 0.2784 0.1919

Mercury -120366-10-04 15:22 J -42241981.92 -42241981.86 -42241981.81 0.2557 0.2403

Mercury -120362-03-31 21:08 J -42240707.73 -42240707.62 -42240707.51 0.2781 0.0369

Mercury -120359-09-26 02:25 J -42239433.54 -42239433.40 -42239433.27 0.2561 0.1386

Mercury -120356-04-09 18:01 J -42238506.77 -42238506.75 -42238506.73 0.2784 0.2729

Venus -120356-07-01 22:49 J -42238423.68 -42238423.55 -42238423.43 0.2684 0.1467

Mercury -120355-03-24 18:44 J -42238157.75 -42238157.72 -42238157.69 0.2777 0.2648

Mercury -120349-04-02 15:37 J -42235956.96 -42235956.85 -42235956.75 0.2783 0.0449

Venus -120348-06-29 16:34 J -42235503.93 -42235503.81 -42235503.69 0.2689 0.1683

Mercury -120346-09-29 08:53 J -42234682.29 -42234682.13 -42234681.97 0.2559 0.0058

Mercury -120342-03-27 13:13 J -42233407.03 -42233406.95 -42233406.87 0.2778 0.1845

Mercury -120336-04-05 09:51 J -42231206.18 -42231206.09 -42231205.99 0.2783 0.1263

Mercury -120333-10-01 15:22 J -42229931.00 -42229930.86 -42229930.72 0.2558 0.1307

Mercury -120329-03-29 07:27 J -42228656.29 -42228656.19 -42228656.09 0.2780 0.1039

Mercury -120326-09-24 02:25 J -42227382.43 -42227382.40 -42227382.36 0.2562 0.2479

Mercury -120323-04-08 04:20 J -42226455.39 -42226455.32 -42226455.25 0.2784 0.2070

Mercury -120316-04-01 01:56 J -42223905.53 -42223905.42 -42223905.31 0.2782 0.0225

Mercury -120313-09-26 08:53 J -42222631.27 -42222631.13 -42222630.99 0.2560 0.1143

Mercury -120309-03-24 23:32 J -42221355.56 -42221355.52 -42221355.47 0.2777 0.2501

Mercury -120303-04-03 20:25 J -42219154.76 -42219154.65 -42219154.54 0.2783 0.0592

Mercury -120300-09-29 15:22 J -42217880.02 -42217879.86 -42217879.70 0.2559 0.0209

Mercury -120296-03-27 18:01 J -42216604.84 -42216604.75 -42216604.67 0.2779 0.1696

Mercury -120290-04-06 14:53 J -42214403.97 -42214403.88 -42214403.79 0.2784 0.1405

Mercury -120287-10-02 22:05 J -42213128.71 -42213128.58 -42213128.46 0.2558 0.1559

Mercury -120283-03-30 12:29 J -42211854.09 -42211853.98 -42211853.88 0.2780 0.0889

Mercury -120280-09-24 09:08 J -42210580.20 -42210580.12 -42210580.05 0.2562 0.2238

Mercury -120277-04-08 09:22 J -42209653.18 -42209653.11 -42209653.05 0.2784 0.2221

Venus -120274-01-09 20:10 J -42208646.82 -42208646.66 -42208646.49 0.2654 0.0251

Mercury -120270-04-02 06:58 J -42207103.32 -42207103.21 -42207103.11 0.2782 0.0136

Mercury -120267-09-27 15:37 J -42205829.00 -42205828.85 -42205828.70 0.2560 0.0891

Mercury -120263-03-26 04:34 J -42204553.37 -42204553.31 -42204553.26 0.2777 0.2358

Mercury -120257-04-04 01:13 J -42202352.55 -42202352.45 -42202352.34 0.2783 0.0743

Mercury -120254-09-30 22:05 J -42201077.74 -42201077.58 -42201077.42 0.2559 0.0460

Mercury -120250-03-28 22:49 J -42199802.63 -42199802.55 -42199802.46 0.2779 0.1551

Mercury -120244-04-06 19:41 J -42197601.77 -42197601.68 -42197601.59 0.2784 0.1555

Mercury -120241-10-03 04:34 J -42196326.42 -42196326.31 -42196326.20 0.2558 0.1802

Mercury -120237-03-30 17:17 J -42195051.88 -42195051.78 -42195051.67 0.2781 0.0738

Mercury -120234-09-25 15:51 J -42193777.94 -42193777.84 -42193777.74 0.2561 0.1987

Mercury -120231-04-09 14:10 J -42192850.97 -42192850.91 -42192850.86 0.2784 0.2368

Mercury -120224-04-02 11:46 J -42190301.12 -42190301.01 -42190300.90 0.2782 0.0078

Mercury -120221-09-27 22:20 J -42189026.73 -42189026.57 -42189026.42 0.2560 0.0645

Mercury -120217-03-26 09:22 J -42187751.17 -42187751.11 -42187751.05 0.2778 0.2211

Mercury -120211-04-05 06:15 J -42185550.35 -42185550.24 -42185550.14 0.2783 0.0894

Mercury -120208-10-01 04:49 J -42184275.46 -42184275.30 -42184275.15 0.2559 0.0708

Mercury -120204-03-29 03:51 J -42183000.44 -42183000.34 -42183000.25 0.2779 0.1402

Mercury -120198-04-08 00:29 J -42180799.56 -42180799.48 -42180799.39 0.2784 0.1706

Mercury -120195-10-04 11:17 J -42179524.12 -42179524.03 -42179523.94 0.2558 0.2059

Mercury -120191-03-31 22:20 J -42178249.68 -42178249.57 -42178249.47 0.2781 0.0598

Mercury -120188-09-25 22:20 J -42176975.68 -42176975.57 -42176975.45 0.2561 0.1740

Mercury -120185-04-09 18:58 J -42176048.75 -42176048.71 -42176048.66 0.2784 0.2519

Mercury -120178-04-03 16:34 J -42173498.91 -42173498.81 -42173498.70 0.2782 0.0242

Mercury -120175-09-29 05:03 J -42172224.45 -42172224.29 -42172224.13 0.2560 0.0393

Mercury -120171-03-27 14:10 J -42170948.98 -42170948.91 -42170948.84 0.2778 0.2067

Mercury -120165-04-05 11:03 J -42168748.14 -42168748.04 -42168747.94 0.2783 0.1040

Mercury -120162-10-02 11:32 J -42167473.17 -42167473.02 -42167472.87 0.2559 0.0964

Mercury -120158-03-30 08:39 J -42166198.23 -42166198.14 -42166198.04 0.2780 0.1256

Mercury -120152-04-08 05:32 J -42163997.35 -42163997.27 -42163997.19 0.2784 0.1854

Mercury -120149-10-04 18:01 J -42162721.82 -42162721.75 -42162721.69 0.2558 0.2311

Mercury -120145-04-01 03:08 J -42161447.48 -42161447.37 -42161447.26 0.2781 0.0440

Mercury -120142-09-27 05:03 J -42160173.42 -42160173.29 -42160173.16 0.2561 0.1494

Mercury -120139-04-11 00:01 J -42159246.53 -42159246.50 -42159246.48 0.2784 0.2670

Mercury -120138-03-26 00:44 J -42158897.49 -42158897.47 -42158897.46 0.2776 0.2729

Mercury -120132-04-03 21:37 J -42156696.71 -42156696.60 -42156696.50 0.2782 0.0386

Mercury -120129-09-29 11:32 J -42155422.18 -42155422.02 -42155421.86 0.2560 0.0142

Mercury -120125-03-27 19:13 J -42154146.78 -42154146.70 -42154146.63 0.2778 0.1923

Mercury -120119-04-06 15:51 J -42151945.93 -42151945.84 -42151945.74 0.2783 0.1197

Mercury -120116-10-02 18:15 J -42150670.89 -42150670.74 -42150670.60 0.2559 0.1219

Venus -120113-07-02 02:39 J -42149667.51 -42149667.39 -42149667.27 0.2688 0.1710

Mercury -120112-03-30 13:27 J -42149396.03 -42149395.94 -42149395.84 0.2780 0.1113

Mercury -120106-04-09 10:20 J -42147195.14 -42147195.07 -42147194.99 0.2784 0.2009

Venus -120105-06-29 20:39 J -42146747.77 -42146747.64 -42146747.51 0.2693 0.1451

Mercury -120099-04-02 07:56 J -42144645.28 -42144645.17 -42144645.06 0.2781 0.0299

Mercury -120096-09-27 11:32 J -42143371.16 -42143371.02 -42143370.87 0.2561 0.1248

Mercury -120092-03-26 05:32 J -42142095.31 -42142095.27 -42142095.23 0.2776 0.2585

Mercury -120086-04-05 02:25 J -42139894.51 -42139894.40 -42139894.29 0.2783 0.0525

Mercury -120083-09-30 18:15 J -42138619.90 -42138619.74 -42138619.58 0.2559 0.0113

Mercury -120079-03-29 00:01 J -42137344.58 -42137344.50 -42137344.42 0.2778 0.1772

Mercury -120073-04-06 20:53 J -42135143.73 -42135143.63 -42135143.54 0.2784 0.1345

Mercury -120070-10-04 00:44 J -42133868.60 -42133868.47 -42133868.34 0.2558 0.1464

Mercury -120066-03-31 18:29 J -42132593.83 -42132593.73 -42132593.63 0.2780 0.0959

Mercury -120063-09-25 11:46 J -42131320.07 -42131320.01 -42131319.95 0.2562 0.2347

Mercury -120060-04-09 15:22 J -42130392.93 -42130392.86 -42130392.80 0.2784 0.2161

Mercury -120053-04-02 12:58 J -42127843.07 -42127842.96 -42127842.86 0.2781 0.0181

Mercury -120050-09-28 18:15 J -42126568.89 -42126568.74 -42126568.59 0.2560 0.0998

Mercury -120046-03-27 10:20 J -42125293.11 -42125293.07 -42125293.02 0.2777 0.2441

Mercury -120040-04-05 07:13 J -42123092.30 -42123092.20 -42123092.09 0.2783 0.0678

Mercury -120037-10-01 00:44 J -42121817.63 -42121817.47 -42121817.31 0.2559 0.0360

Mercury -120033-03-29 04:49 J -42120542.38 -42120542.30 -42120542.21 0.2778 0.1628

Venus -120031-01-09 18:44 J -42119890.89 -42119890.72 -42119890.56 0.2650 0.0209

Mercury -120027-04-08 01:41 J -42118341.52 -42118341.43 -42118341.34 0.2784 0.1492

Mercury -120024-10-04 07:27 J -42117066.31 -42117066.19 -42117066.07 0.2558 0.1719

Mercury -120020-03-31 23:17 J -42115791.63 -42115791.53 -42115791.43 0.2780 0.0812

Mercury -120017-09-25 18:29 J -42114517.82 -42114517.73 -42114517.64 0.2562 0.2100

Mercury -120014-04-10 20:10 J -42113590.72 -42113590.66 -42113590.60 0.2784 0.2310

Mercury -120007-04-03 17:46 J -42111040.87 -42111040.76 -42111040.65 0.2782 0.0017

Mercury -120004-09-29 00:58 J -42109766.61 -42109766.46 -42109766.30 0.2560 0.0745

120TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 120th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-120000-03-27 15:22 J	-42108490.92	-42108490.86	-42108490.80	0.2777	0.2291		
Mercury	-119994-04-06 12:15 J	-42106290.10	-42106289.99	-42106289.89	0.2783	0.0830		
Mercury	-119991-10-02 07:27 J	-42105015.34	-42105015.19	-42105015.03	0.2559	0.0615		
Mercury	-119987-03-30 09:51 J	-42103740.18	-42103740.09	-42103740.00	0.2779	0.1481		
Mercury	-119981-04-08 06:29 J	-42101539.31	-42101539.23	-42101539.14	0.2784	0.1645		
Mercury	-119978-10-05 13:56 J	-42100264.02	-42100263.92	-42100263.82	0.2558	0.1968		
Mercury	-119974-04-02 04:05 J	-42098989.43	-42098989.33	-42098989.22	0.2780	0.0673		
Mercury	-119971-09-27 01:13 J	-42097715.56	-42097715.45	-42097715.34	0.2562	0.1849		
Mercury	-119968-04-11 00:58 J	-42096788.51	-42096788.46	-42096788.41	0.2784	0.2461		
Mercury	-119961-04-03 22:34 J	-42094238.67	-42094238.56	-42094238.45	0.2782	0.0161		
Mercury	-119958-09-30 07:41 J	-42092964.34	-42092964.18	-42092964.03	0.2560	0.0497		
Mercury	-119954-03-28 20:10 J	-42091688.72	-42091688.66	-42091688.59	0.2777	0.2145		
Mercury	-119948-04-06 17:03 J	-42089487.89	-42089487.79	-42089487.69	0.2783	0.0975		
Mercury	-119945-10-02 14:10 J	-42088213.06	-42088212.91	-42088212.76	0.2559	0.0867		
Mercury	-119941-03-30 14:39 J	-42086937.98	-42086937.89	-42086937.79	0.2779	0.1329		
Mercury	-119935-04-09 11:32 J	-42084737.10	-42084737.02	-42084736.94	0.2784	0.1796		

Mercury -119932-10-05 20:39 J -42083461.71 -42083461.64 -42083461.56 0.2558 0.2224

Mercury -119928-04-02 09:08 J -42082187.23 -42082187.12 -42082187.02 0.2781 0.0515

Mercury -119925-09-27 07:41 J -42080913.30 -42080913.18 -42080913.05 0.2562 0.1601

Mercury -119922-04-12 06:01 J -42079986.29 -42079986.25 -42079986.22 0.2784 0.2613

Mercury -119915-04-05 03:37 J -42077436.46 -42077436.35 -42077436.25 0.2782 0.0321

Mercury -119912-09-30 14:25 J -42076162.06 -42076161.90 -42076161.74 0.2560 0.0241

Mercury -119908-03-29 01:13 J -42074886.53 -42074886.45 -42074886.38 0.2778 0.1997

Mercury -119902-04-07 21:51 J -42072685.69 -42072685.59 -42072685.49 0.2783 0.1130

Mercury -119899-10-03 20:53 J -42071410.78 -42071410.63 -42071410.49 0.2559 0.1121

Mercury -119895-03-31 19:41 J -42070135.78 -42070135.68 -42070135.59 0.2780 0.1185

Mercury -119889-04-09 16:20 J -42067934.89 -42067934.82 -42067934.74 0.2784 0.1946

Mercury -119886-10-07 03:22 J -42066659.40 -42066659.36 -42066659.32 0.2558 0.2477

Mercury -119882-04-03 13:56 J -42065385.03 -42065384.92 -42065384.81 0.2781 0.0365

Mercury -119879-09-28 14:25 J -42064111.03 -42064110.90 -42064110.76 0.2561 0.1349

Mercury -119876-04-12 10:49 J -42063184.06 -42063184.05 -42063184.04 0.2785 0.2765

Mercury -119875-03-27 11:32 J -42062835.05 -42062835.02 -42062834.99 0.2776 0.2664

Venus -119870-07-03 06:29 J -42060911.33 -42060911.23 -42060911.12 0.2691 0.1947

Mercury -119869-04-05 08:25 J -42060634.26 -42060634.15 -42060634.04 0.2782 0.0458

Mercury -119866-10-01 20:53 J -42059359.79 -42059359.63 -42059359.47 0.2560 0.0026

Mercury -119862-03-30 06:01 J -42058084.33 -42058084.25 -42058084.17 0.2778 0.1851

Venus -119862-07-01 00:15 J -42057991.63 -42057991.49 -42057991.36 0.2696 0.1253

Mercury -119856-04-08 02:53 J -42055883.48 -42055883.38 -42055883.29 0.2783 0.1278

Mercury -119853-10-04 03:22 J -42054608.49 -42054608.36 -42054608.22 0.2559 0.1378

Mercury -119849-04-01 00:29 J -42053333.58 -42053333.48 -42053333.38 0.2780 0.1034

Mercury -119846-09-26 14:39 J -42052059.94 -42052059.89 -42052059.85 0.2563 0.2457

Mercury -119843-04-10 21:08 J -42051132.68 -42051132.62 -42051132.55 0.2784 0.2101

Mercury -119836-04-03 18:58 J -42048582.82 -42048582.71 -42048582.61 0.2781 0.0231

Mercury -119833-09-28 21:08 J -42047308.77 -42047308.62 -42047308.47 0.2561 0.1095

Mercury -119829-03-27 16:34 J -42046032.86 -42046032.81 -42046032.77 0.2776 0.2519

Mercury -119823-04-06 13:13 J -42043832.05 -42043831.95 -42043831.84 0.2783 0.0615

Mercury -119820-10-02 03:37 J -42042557.51 -42042557.35 -42042557.19 0.2559 0.0269

Mercury -119816-03-30 10:49 J -42041282.13 -42041282.05 -42041281.96 0.2778 0.1705

Mercury -119810-04-09 07:41 J -42039081.27 -42039081.18 -42039081.09 0.2784 0.1430

Mercury -119807-10-05 10:05 J -42037806.20 -42037806.08 -42037805.95 0.2558 0.1627

Mercury -119803-04-02 05:17 J -42036531.38 -42036531.28 -42036531.18 0.2780 0.0883

Mercury -119800-09-26 21:22 J -42035257.69 -42035257.61 -42035257.53 0.2562 0.2204

Mercury -119797-04-11 02:10 J -42034330.47 -42034330.41 -42034330.35 0.2784 0.2250

Mercury -119790-04-04 23:46 J -42031780.62 -42031780.51 -42031780.40 0.2781 0.0074

Venus -119788-01-09 17:03 J -42031134.96 -42031134.79 -42031134.63 0.2646 0.0167

Mercury -119787-09-30 03:37 J -42030506.50 -42030506.35 -42030506.19 0.2561 0.0847

Mercury -119783-03-28 21:22 J -42029230.67 -42029230.61 -42029230.56 0.2776 0.2370

Mercury -119777-04-06 18:15 J -42027029.85 -42027029.74 -42027029.64 0.2783 0.0764

Mercury -119774-10-03 10:20 J -42025755.23 -42025755.07 -42025754.91 0.2559 0.0521

Mercury -119770-03-31 15:51 J -42024479.93 -42024479.84 -42024479.75 0.2778 0.1552

Mercury -119764-04-09 12:29 J -42022279.06 -42022278.98 -42022278.89 0.2784 0.1587

Mercury -119761-10-05 16:49 J -42021003.91 -42021003.80 -42021003.69 0.2558 0.1884

Mercury -119757-04-02 10:05 J -42019729.18 -42019729.08 -42019728.97 0.2780 0.0742

Mercury -119754-09-28 03:51 J -42018455.44 -42018455.34 -42018455.24 0.2562 0.1957

Mercury -119751-04-12 06:58 J -42017528.26 -42017528.21 -42017528.16 0.2785 0.2403

Mercury -119744-04-05 04:34 J -42014978.42 -42014978.31 -42014978.20 0.2781 0.0104

Mercury -119741-09-30 10:20 J -42013704.22 -42013704.07 -42013703.91 0.2560 0.0594

Mercury -119737-03-29 02:10 J -42012428.47 -42012428.41 -42012428.34 0.2777 0.2223

Mercury -119731-04-07 23:03 J -42010227.64 -42010227.54 -42010227.44 0.2783 0.0911

Mercury -119728-10-03 16:49 J -42008952.95 -42008952.80 -42008952.64 0.2559 0.0777

Mercury -119724-03-31 20:39 J -42007677.73 -42007677.64 -42007677.55 0.2779 0.1404

Mercury -119718-04-10 17:32 J -42005476.86 -42005476.77 -42005476.69 0.2784 0.1735

Mercury -119715-10-06 23:17 J -42004201.61 -42004201.53 -42004201.44 0.2558 0.2137

Mercury -119711-04-03 15:08 J -42002926.98 -42002926.87 -42002926.77 0.2780 0.0584

Mercury -119708-09-28 10:34 J -42001653.18 -42001653.06 -42001652.94 0.2562 0.1705

Mercury -119705-04-12 12:01 J -42000726.04 -42000726.00 -42000725.96 0.2785 0.2559

Mercury -119698-04-06 09:37 J -41998176.21 -41998176.10 -41998176.00 0.2782 0.0257

Mercury -119695-10-01 17:03 J -41996901.95 -41996901.79 -41996901.63 0.2560 0.0343

Mercury -119691-03-30 07:13 J -41995626.27 -41995626.20 -41995626.13 0.2777 0.2078

Mercury -119685-04-08 03:51 J -41993425.44 -41993425.34 -41993425.24 0.2783 0.1065

Mercury -119682-10-04 23:32 J -41992150.67 -41992150.52 -41992150.37 0.2559 0.1028

Mercury -119678-04-02 01:27 J -41990875.53 -41990875.44 -41990875.34 0.2779 0.1259

Mercury -119672-04-10 22:20 J -41988674.65 -41988674.57 -41988674.49 0.2784 0.1886

Mercury -119669-10-07 06:01 J -41987399.30 -41987399.25 -41987399.19 0.2558 0.2394

Mercury -119665-04-03 19:56 J -41986124.77 -41986124.67 -41986124.56 0.2780 0.0435

Mercury -119662-09-29 17:17 J -41984850.92 -41984850.78 -41984850.65 0.2562 0.1450

Mercury -119659-04-13 16:49 J -41983923.82 -41983923.80 -41983923.78 0.2785 0.2709

Mercury -119658-03-28 17:32 J -41983574.78 -41983574.77 -41983574.76 0.2775 0.2744

Mercury -119652-04-06 14:25 J -41981374.01 -41981373.90 -41981373.79 0.2782 0.0392

Mercury -119649-10-01 23:46 J -41980099.67 -41980099.51 -41980099.35 0.2560 0.0089

Mercury -119645-03-30 12:01 J -41978824.08 -41978824.00 -41978823.92 0.2777 0.1925

Mercury -119639-04-09 08:53 J -41976623.23 -41976623.13 -41976623.04 0.2783 0.1220

Mercury -119636-10-05 06:15 J -41975348.38 -41975348.24 -41975348.10 0.2559 0.1281

Mercury -119632-04-02 06:29 J -41974073.33 -41974073.23 -41974073.13 0.2779 0.1105

Mercury -119629-09-26 17:32 J -41972799.78 -41972799.77 -41972799.77 0.2563 0.2556

Venus -119627-07-03 10:20 J -41972155.16 -41972155.07 -41972154.98 0.2695 0.2163

Mercury -119626-04-12 03:08 J -41971872.44 -41971872.37 -41971872.29 0.2784 0.2041

Mercury -119619-04-05 00:58 J -41969322.57 -41969322.46 -41969322.36 0.2781 0.0304

Venus -119619-07-01 04:05 J -41969235.47 -41969235.33 -41969235.19 0.2699 0.1047

Mercury -119616-09-29 23:46 J -41968048.65 -41968048.51 -41968048.36 0.2561 0.1198

Mercury -119612-03-28 22:34 J -41966772.60 -41966772.56 -41966772.53 0.2776 0.2597

Mercury -119606-04-07 19:13 J -41964571.80 -41964571.70 -41964571.59 0.2782 0.0547

Mercury -119603-10-03 06:15 J -41963297.40 -41963297.24 -41963297.08 0.2560 0.0176

Mercury -119599-03-31 16:49 J -41962021.88 -41962021.80 -41962021.71 0.2778 0.1778

Mercury -119593-04-09 13:41 J -41959821.02 -41959820.93 -41959820.84 0.2783 0.1368

Mercury -119590-10-06 12:58 J -41958546.09 -41958545.96 -41958545.84 0.2558 0.1543

Mercury -119586-04-03 11:17 J -41957271.13 -41957271.03 -41957270.93 0.2779 0.0953

Mercury -119583-09-28 00:01 J -41955997.57 -41955997.50 -41955997.43 0.2563 0.2311

Mercury -119580-04-12 08:10 J -41955070.23 -41955070.16 -41955070.10 0.2784 0.2195

Mercury -119573-04-05 05:46 J -41952520.37 -41952520.26 -41952520.15 0.2781 0.0130

Mercury -119570-10-01 06:29 J -41951246.38 -41951246.23 -41951246.08 0.2561 0.0942

Mercury -119566-03-30 03:22 J -41949970.41 -41949970.36 -41949970.31 0.2776 0.2449

Mercury -119560-04-08 00:15 J -41947769.60 -41947769.49 -41947769.39 0.2782 0.0701

Mercury -119557-10-03 12:58 J -41946495.12 -41946494.96 -41946494.80 0.2560 0.0430

Mercury -119553-03-31 21:51 J -41945219.68 -41945219.59 -41945219.50 0.2778 0.1626

Mercury -119547-04-10 18:29 J -41943018.82 -41943018.73 -41943018.64 0.2783 0.1521

Venus -119545-01-10 15:37 J -41942379.02 -41942378.85 -41942378.69 0.2642 0.0147

Mercury -119544-10-06 19:27 J -41941743.80 -41941743.69 -41941743.58 0.2558 0.1794

Mercury -119540-04-03 16:20 J -41940468.93 -41940468.82 -41940468.72 0.2780 0.0809

Mercury -119537-09-28 06:44 J -41939195.32 -41939195.22 -41939195.13 0.2562 0.2055

Mercury -119534-04-13 12:58 J -41938268.02 -41938267.96 -41938267.90 0.2784 0.2344

Mercury -119527-04-06 10:34 J -41935718.17 -41935718.06 -41935717.95 0.2781 0.0078

Mercury -119524-10-01 13:13 J -41934444.11 -41934443.95 -41934443.80 0.2561 0.0694

Mercury -119520-03-30 08:10 J -41933168.22 -41933168.16 -41933168.10 0.2776 0.2300

Mercury -119514-04-09 05:03 J -41930967.39 -41930967.29 -41930967.19 0.2782 0.0848

Mercury -119511-10-04 19:41 J -41929692.84 -41929692.68 -41929692.53 0.2559 0.0683

Mercury -119507-04-02 02:39 J -41928417.48 -41928417.39 -41928417.30 0.2778 0.1478

Mercury -119501-04-10 23:32 J -41926216.61 -41926216.52 -41926216.44 0.2784 0.1674

Mercury -119498-10-08 02:10 J -41924941.50 -41924941.41 -41924941.31 0.2558 0.2055

Mercury -119494-04-04 21:08 J -41923666.73 -41923666.62 -41923666.52 0.2780 0.0652

Mercury -119491-09-29 13:13 J -41922393.06 -41922392.95 -41922392.83 0.2562 0.1807

Mercury -119488-04-13 17:46 J -41921465.80 -41921465.76 -41921465.71 0.2784 0.2501

Mercury -119481-04-06 15:37 J -41918915.96 -41918915.85 -41918915.75 0.2781 0.0192

Mercury -119478-10-02 19:41 J -41917641.83 -41917641.68 -41917641.52 0.2561 0.0438

Mercury -119474-03-31 13:13 J -41916366.02 -41916365.95 -41916365.89 0.2777 0.2154

Mercury -119468-04-09 09:51 J -41914165.19 -41914165.09 -41914164.99 0.2783 0.1005

Mercury -119465-10-05 02:25 J -41912890.55 -41912890.40 -41912890.25 0.2559 0.0940
 Mercury -119461-04-02 07:27 J -41911615.28 -41911615.19 -41911615.09 0.2778 0.1330
 Mercury -119455-04-12 04:20 J -41909414.40 -41909414.32 -41909414.24 0.2784 0.1828
 Mercury -119452-10-08 08:53 J -41908139.20 -41908139.13 -41908139.07 0.2558 0.2311
 Mercury -119448-04-05 01:56 J -41906864.52 -41906864.42 -41906864.31 0.2780 0.0504
 Mercury -119445-09-29 19:56 J -41905590.80 -41905590.67 -41905590.54 0.2562 0.1552
 Mercury -119442-04-14 22:49 J -41904663.58 -41904663.55 -41904663.52 0.2785 0.2652
 Mercury -119435-04-07 20:25 J -41902113.76 -41902113.65 -41902113.54 0.2781 0.0328
 Mercury -119432-10-03 02:25 J -41900839.56 -41900839.40 -41900839.24 0.2560 0.0183
 Mercury -119428-03-31 18:01 J -41899563.82 -41899563.75 -41899563.68 0.2777 0.2001
 Mercury -119422-04-10 14:53 J -41897362.98 -41897362.88 -41897362.78 0.2783 0.1157
 Mercury -119419-10-06 08:53 J -41896088.27 -41896088.13 -41896087.98 0.2559 0.1201
 Mercury -119415-04-03 12:29 J -41894813.08 -41894812.98 -41894812.88 0.2779 0.1176
 Mercury -119409-04-12 09:08 J -41892612.19 -41892612.12 -41892612.04 0.2784 0.1987
 Mercury -119402-04-06 06:58 J -41890062.32 -41890062.21 -41890062.11 0.2780 0.0363
 Mercury -119399-10-01 02:25 J -41888788.53 -41888788.40 -41888788.26 0.2562 0.1304
 Mercury -119395-03-30 04:20 J -41887512.34 -41887512.32 -41887512.29 0.2775 0.2677
 Mercury -119389-04-08 01:13 J -41885311.55 -41885311.45 -41885311.34 0.2782 0.0484
 Mercury -119386-10-04 09:08 J -41884037.28 -41884037.12 -41884036.96 0.2560 0.0081
 Venus -119384-07-03 13:56 J -41883398.99 -41883398.92 -41883398.85 0.2698 0.2360
 Mercury -119382-04-01 22:49 J -41882761.63 -41882761.55 -41882761.47 0.2777 0.1853
 Mercury -119376-04-10 19:41 J -41880560.78 -41880560.68 -41880560.59 0.2783 0.1308
 Venus -119376-07-01 07:27 J -41880479.34 -41880479.19 -41880479.04 0.2703 0.0870
 Mercury -119373-10-06 15:37 J -41879285.98 -41879285.85 -41879285.72 0.2559 0.1452
 Mercury -119369-04-03 17:17 J -41878010.88 -41878010.78 -41878010.68 0.2779 0.1025
 Mercury -119366-09-29 02:53 J -41876737.44 -41876737.38 -41876737.33 0.2563 0.2412
 Mercury -119363-04-13 14:10 J -41875809.98 -41875809.91 -41875809.84 0.2784 0.2136
 Mercury -119356-04-06 11:46 J -41873260.12 -41873260.01 -41873259.90 0.2780 0.0199
 Mercury -119353-10-01 09:08 J -41871986.26 -41871986.12 -41871985.97 0.2561 0.1046
 Mercury -119349-03-30 09:22 J -41870710.15 -41870710.11 -41870710.07 0.2776 0.2524

Mercury -119343-04-09 06:15 J -41868509.35 -41868509.24 -41868509.14 0.2782 0.0641

Mercury -119340-10-04 15:37 J -41867235.01 -41867234.85 -41867234.69 0.2560 0.0331

Mercury -119336-04-02 03:51 J -41865959.43 -41865959.34 -41865959.26 0.2778 0.1702

Mercury -119330-04-12 00:29 J -41863758.57 -41863758.48 -41863758.39 0.2783 0.1463

Mercury -119327-10-07 22:20 J -41862483.69 -41862483.57 -41862483.45 0.2559 0.1713

Mercury -119323-04-04 22:05 J -41861208.68 -41861208.58 -41861208.47 0.2779 0.0881

Mercury -119320-09-29 09:22 J -41859935.19 -41859935.11 -41859935.02 0.2563 0.2162

Mercury -119317-04-13 18:58 J -41859007.77 -41859007.71 -41859007.65 0.2784 0.2290

Mercury -119310-04-07 16:34 J -41856457.92 -41856457.81 -41856457.70 0.2781 0.0073

Mercury -119307-10-02 15:51 J -41855183.99 -41855183.84 -41855183.68 0.2561 0.0784

Mercury -119303-03-31 14:10 J -41853907.96 -41853907.91 -41853907.85 0.2776 0.2376

Venus -119302-01-10 14:10 J -41853623.07 -41853622.91 -41853622.74 0.2639 0.0132

Mercury -119297-04-09 11:03 J -41851707.14 -41851707.04 -41851706.94 0.2782 0.0785

Mercury -119294-10-05 22:20 J -41850432.73 -41850432.57 -41850432.41 0.2560 0.0591

Mercury -119290-04-03 08:39 J -41849157.23 -41849157.14 -41849157.05 0.2778 0.1548

Mercury -119284-04-12 05:32 J -41846956.36 -41846956.27 -41846956.19 0.2783 0.1619

Mercury -119281-10-08 04:49 J -41845681.40 -41845681.30 -41845681.20 0.2558 0.1966

Mercury -119277-04-05 03:08 J -41844406.48 -41844406.37 -41844406.27 0.2779 0.0722

Mercury -119274-09-30 16:05 J -41843132.94 -41843132.83 -41843132.72 0.2563 0.1903

Mercury -119271-04-14 23:46 J -41842205.56 -41842205.51 -41842205.46 0.2784 0.2445

Mercury -119264-04-07 21:22 J -41839655.71 -41839655.61 -41839655.50 0.2781 0.0157

Mercury -119261-10-02 22:34 J -41838381.72 -41838381.56 -41838381.41 0.2561 0.0535

Mercury -119257-03-31 19:13 J -41837105.77 -41837105.70 -41837105.64 0.2776 0.2226

Mercury -119251-04-10 15:51 J -41834904.94 -41834904.84 -41834904.74 0.2782 0.0940

Mercury -119248-10-06 05:03 J -41833630.44 -41833630.29 -41833630.14 0.2560 0.0852

Mercury -119244-04-03 13:27 J -41832355.03 -41832354.94 -41832354.84 0.2778 0.1402

Mercury -119238-04-13 10:20 J -41830154.15 -41830154.07 -41830153.99 0.2784 0.1768

Mercury -119235-10-09 11:32 J -41828879.09 -41828879.02 -41828878.94 0.2558 0.2231

Mercury -119231-04-06 07:56 J -41827604.27 -41827604.17 -41827604.06 0.2780 0.0569

Mercury -119228-09-30 22:34 J -41826330.68 -41826330.56 -41826330.43 0.2562 0.1656

Mercury -119225-04-15 04:49 J -41825403.34 -41825403.30 -41825403.27 0.2784 0.2602

Mercury -119218-04-09 02:25 J -41822853.51 -41822853.40 -41822853.29 0.2781 0.0263

Mercury -119215-10-04 05:17 J -41821579.44 -41821579.28 -41821579.12 0.2561 0.0274

Mercury -119211-04-02 00:01 J -41820303.57 -41820303.50 -41820303.43 0.2776 0.2075

Mercury -119205-04-10 20:53 J -41818102.73 -41818102.63 -41818102.53 0.2783 0.1097

Mercury -119202-10-07 11:46 J -41816828.16 -41816828.01 -41816827.87 0.2559 0.1111

Mercury -119198-04-04 18:29 J -41815552.83 -41815552.73 -41815552.63 0.2778 0.1245

Mercury -119192-04-13 15:08 J -41813351.94 -41813351.87 -41813351.79 0.2784 0.1925

Mercury -119189-10-09 18:15 J -41812076.78 -41812076.74 -41812076.71 0.2558 0.2489

Mercury -119185-04-06 12:58 J -41810802.07 -41810801.96 -41810801.86 0.2780 0.0430

Mercury -119182-10-02 05:17 J -41809528.41 -41809528.28 -41809528.14 0.2562 0.1395

Mercury -119179-04-16 09:37 J -41808601.11 -41808601.10 -41808601.09 0.2785 0.2754

Mercury -119178-03-31 10:20 J -41808252.08 -41808252.07 -41808252.06 0.2774 0.2753

Mercury -119172-04-09 07:13 J -41806051.30 -41806051.20 -41806051.09 0.2781 0.0425

Mercury -119169-10-04 11:46 J -41804777.17 -41804777.01 -41804776.85 0.2560 0.0017

Mercury -119165-04-02 04:49 J -41803501.37 -41803501.30 -41803501.22 0.2777 0.1924

Mercury -119159-04-12 01:41 J -41801300.53 -41801300.43 -41801300.33 0.2783 0.1248

Mercury -119156-10-07 18:15 J -41800025.87 -41800025.74 -41800025.60 0.2559 0.1372

Mercury -119152-04-04 23:17 J -41798750.63 -41798750.53 -41798750.43 0.2778 0.1094

Mercury -119149-09-29 05:32 J -41797477.30 -41797477.27 -41797477.25 0.2564 0.2519

Mercury -119146-04-14 20:10 J -41796549.73 -41796549.66 -41796549.59 0.2784 0.2081

Venus -119141-07-03 17:32 J -41794642.82 -41794642.77 -41794642.72 0.2701 0.2557

Mercury -119139-04-07 17:46 J -41793999.87 -41793999.76 -41793999.65 0.2780 0.0261

Mercury -119136-10-02 12:01 J -41792726.14 -41792726.00 -41792725.86 0.2562 0.1138

Venus -119133-07-01 11:03 J -41791723.19 -41791723.04 -41791722.89 0.2706 0.0693

Mercury -119132-03-31 15:22 J -41791449.90 -41791449.86 -41791449.83 0.2775 0.2602

Mercury -119126-04-10 12:15 J -41789249.10 -41789248.99 -41789248.89 0.2782 0.0576

Mercury -119123-10-05 18:29 J -41787974.89 -41787974.73 -41787974.57 0.2560 0.0248

Mercury -119119-04-03 09:51 J -41786699.18 -41786699.09 -41786699.01 0.2777 0.1774

Mercury -119113-04-12 06:29 J -41784498.32 -41784498.23 -41784498.13 0.2783 0.1408

Mercury -119110-10-09 00:58 J -41783223.58 -41783223.46 -41783223.34 0.2559 0.1628

Mercury -119106-04-06 04:05 J -41781948.43 -41781948.33 -41781948.22 0.2779 0.0947

Mercury -119103-09-30 12:15 J -41780675.07 -41780674.99 -41780674.92 0.2564 0.2260

Mercury -119100-04-15 00:58 J -41779747.52 -41779747.46 -41779747.40 0.2784 0.2237

Mercury -119093-04-07 22:34 J -41777197.67 -41777197.56 -41777197.45 0.2780 0.0119

Mercury -119090-10-03 18:29 J -41775923.88 -41775923.73 -41775923.58 0.2562 0.0886

Mercury -119086-04-01 20:10 J -41774647.71 -41774647.66 -41774647.61 0.2775 0.2451

Mercury -119080-04-10 17:03 J -41772446.89 -41772446.79 -41772446.69 0.2782 0.0725

Mercury -119077-10-06 01:13 J -41771172.61 -41771172.45 -41771172.30 0.2560 0.0507

Mercury -119073-04-03 14:39 J -41769896.98 -41769896.89 -41769896.80 0.2777 0.1620

Mercury -119067-04-13 11:32 J -41767696.11 -41767696.02 -41767695.93 0.2783 0.1560

Mercury -119064-10-09 07:41 J -41766421.29 -41766421.18 -41766421.07 0.2559 0.1894

Mercury -119060-04-06 09:08 J -41765146.23 -41765146.12 -41765146.02 0.2779 0.0791

Venus -119059-01-10 13:13 J -41764867.12 -41764866.95 -41764866.79 0.2635 0.0162

Mercury -119057-09-30 18:44 J -41763872.82 -41763872.72 -41763872.62 0.2563 0.2010

Mercury -119054-04-16 05:46 J -41762945.31 -41762945.26 -41762945.20 0.2784 0.2395

Mercury -119047-04-09 03:37 J -41760395.46 -41760395.35 -41760395.25 0.2781 0.0113

Mercury -119044-10-04 01:13 J -41759121.60 -41759121.45 -41759121.29 0.2561 0.0625

Mercury -119040-04-02 01:13 J -41757845.51 -41757845.45 -41757845.40 0.2775 0.2301

Mercury -119034-04-11 21:51 J -41755644.69 -41755644.59 -41755644.48 0.2782 0.0881

Mercury -119031-10-07 07:41 J -41754370.33 -41754370.18 -41754370.02 0.2560 0.0766

Mercury -119027-04-04 19:27 J -41753094.78 -41753094.69 -41753094.59 0.2777 0.1472

Mercury -119021-04-13 16:20 J -41750893.91 -41750893.82 -41750893.74 0.2783 0.1714

Mercury -119018-10-10 14:10 J -41749618.99 -41749618.91 -41749618.82 0.2558 0.2146

Mercury -119014-04-07 13:56 J -41748344.02 -41748343.92 -41748343.81 0.2779 0.0636

Mercury -119011-10-02 01:27 J -41747070.56 -41747070.44 -41747070.32 0.2563 0.1748

Mercury -119008-04-16 10:49 J -41746143.09 -41746143.05 -41746143.01 0.2784 0.2547

Mercury -119001-04-09 08:25 J -41743593.26 -41743593.15 -41743593.04 0.2781 0.0200

119TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 119th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-118998-10-05 07:56 J	-41742319.33	-41742319.17	-41742319.01	0.2561	0.0369		
Mercury	-118994-04-03 06:01 J	-41741043.32	-41741043.25	-41741043.18	0.2776	0.2146		
Mercury	-118988-04-12 02:53 J	-41738842.48	-41738842.38	-41738842.28	0.2782	0.1040		
Mercury	-118985-10-07 14:25 J	-41737568.05	-41737567.90	-41737567.75	0.2560	0.1021		
Mercury	-118981-04-05 00:29 J	-41736292.58	-41736292.48	-41736292.39	0.2778	0.1317		
Mercury	-118975-04-14 21:08 J	-41734091.70	-41734091.62	-41734091.54	0.2784	0.1870		
Mercury	-118972-10-10 20:53 J	-41732816.68	-41732816.63	-41732816.58	0.2558	0.2411		
Mercury	-118968-04-07 18:58 J	-41731541.82	-41731541.71	-41731541.61	0.2779	0.0492		
Mercury	-118965-10-02 08:10 J	-41730268.29	-41730268.16	-41730268.03	0.2563	0.1491		
Mercury	-118962-04-17 15:37 J	-41729340.87	-41729340.85	-41729340.83	0.2784	0.2704		
Mercury	-118955-04-10 13:13 J	-41726791.05	-41726790.95	-41726790.84	0.2781	0.0360		
Mercury	-118952-10-05 14:39 J	-41725517.05	-41725516.89	-41725516.73	0.2561	0.0105		
Mercury	-118948-04-03 10:49 J	-41724241.12	-41724241.05	-41724240.97	0.2776	0.1998		
Mercury	-118942-04-13 07:41 J	-41722040.28	-41722040.18	-41722040.08	0.2782	0.1189		
Mercury	-118939-10-08 21:08 J	-41720765.76	-41720765.62	-41720765.48	0.2559	0.1285		
Mercury	-118935-04-06 05:17 J	-41719490.38	-41719490.28	-41719490.18	0.2778	0.1161		
Mercury	-118929-04-15 02:10 J	-41717289.49	-41717289.41	-41717289.34	0.2784	0.2028		
Mercury	-118922-04-08 23:46 J	-41714739.62	-41714739.51	-41714739.40	0.2780	0.0327		

Mercury -118919-10-03 14:39 J -41713466.03 -41713465.89 -41713465.74 0.2562 0.1232

Mercury -118915-04-01 21:22 J -41712189.64 -41712189.61 -41712189.59 0.2774 0.2675

Mercury -118909-04-10 18:15 J -41709988.85 -41709988.74 -41709988.64 0.2781 0.0521

Mercury -118906-10-06 21:08 J -41708714.78 -41708714.62 -41708714.45 0.2561 0.0167

Mercury -118902-04-04 15:51 J -41707438.92 -41707438.84 -41707438.76 0.2776 0.1843

Mercury -118896-04-13 12:29 J -41705238.07 -41705237.98 -41705237.88 0.2783 0.1348

Mercury -118893-10-09 03:51 J -41703963.47 -41703963.34 -41703963.22 0.2559 0.1551

Venus -118890-07-02 14:10 J -41702967.06 -41702966.91 -41702966.75 0.2710 0.0554

Mercury -118889-04-06 10:20 J -41702688.18 -41702688.07 -41702687.97 0.2778 0.1015

Mercury -118886-10-01 14:53 J -41701414.94 -41701414.88 -41701414.82 0.2564 0.2360

Mercury -118883-04-16 06:58 J -41700487.28 -41700487.21 -41700487.14 0.2784 0.2180

Mercury -118876-04-09 04:34 J -41697937.42 -41697937.31 -41697937.20 0.2780 0.0186

Mercury -118873-10-03 21:22 J -41696663.76 -41696663.61 -41696663.46 0.2562 0.0975

Mercury -118869-04-02 02:10 J -41695387.45 -41695387.41 -41695387.37 0.2774 0.2523

Mercury -118863-04-11 23:03 J -41693186.65 -41693186.54 -41693186.44 0.2782 0.0666

Mercury -118860-10-07 03:51 J -41691912.50 -41691912.34 -41691912.18 0.2560 0.0424

Mercury -118856-04-04 20:39 J -41690636.72 -41690636.64 -41690636.55 0.2776 0.1690

Mercury -118850-04-14 17:32 J -41688435.86 -41688435.77 -41688435.68 0.2783 0.1506

Mercury -118847-10-10 10:20 J -41687161.18 -41687161.07 -41687160.96 0.2559 0.1808

Mercury -118843-04-07 15:08 J -41685885.97 -41685885.87 -41685885.77 0.2778 0.0854

Mercury -118840-10-01 21:37 J -41684612.69 -41684612.60 -41684612.51 0.2564 0.2102

Mercury -118837-04-16 11:46 J -41683685.06 -41683685.01 -41683684.95 0.2784 0.2341

Mercury -118830-04-10 09:37 J -41681135.21 -41681135.10 -41681135.00 0.2780 0.0101

Mercury -118827-10-05 04:05 J -41679861.49 -41679861.33 -41679861.18 0.2562 0.0717

Mercury -118823-04-03 07:13 J -41678585.26 -41678585.20 -41678585.15 0.2775 0.2376

Mercury -118817-04-12 03:51 J -41676384.44 -41676384.34 -41676384.23 0.2782 0.0824

Venus -118816-01-10 12:01 J -41676111.16 -41676111.00 -41676110.83 0.2632 0.0186

Mercury -118814-10-08 10:20 J -41675110.22 -41675110.07 -41675109.91 0.2560 0.0679

Mercury -118810-04-06 01:27 J -41673834.53 -41673834.44 -41673834.35 0.2777 0.1539

Mercury -118804-04-14 22:20 J -41671633.66 -41671633.57 -41671633.48 0.2783 0.1659

Mercury -118801-10-10 17:03 J -41670358.88 -41670358.79 -41670358.70 0.2559 0.2074

Mercury -118797-04-07 19:56 J -41669083.77 -41669083.67 -41669083.56 0.2779 0.0702

Mercury -118794-10-03 04:05 J -41667810.44 -41667810.33 -41667810.22 0.2564 0.1847

Mercury -118791-04-17 16:49 J -41666882.85 -41666882.80 -41666882.76 0.2784 0.2497

Mercury -118784-04-10 14:25 J -41664333.01 -41664332.90 -41664332.79 0.2780 0.0139

Mercury -118781-10-05 10:34 J -41663059.21 -41663059.06 -41663058.90 0.2562 0.0459

Mercury -118777-04-03 12:01 J -41661783.06 -41661783.00 -41661782.94 0.2775 0.2221

Mercury -118771-04-13 08:53 J -41659582.24 -41659582.13 -41659582.03 0.2782 0.0981

Mercury -118768-10-08 17:03 J -41658307.94 -41658307.79 -41658307.64 0.2560 0.0942

Mercury -118764-04-06 06:29 J -41657032.33 -41657032.23 -41657032.14 0.2777 0.1386

Mercury -118758-04-16 03:08 J -41654831.45 -41654831.37 -41654831.29 0.2783 0.1818

Mercury -118755-10-11 23:32 J -41653556.58 -41653556.52 -41653556.45 0.2559 0.2332

Mercury -118751-04-09 00:44 J -41652281.57 -41652281.47 -41652281.36 0.2779 0.0559

Mercury -118748-10-03 10:49 J -41651008.17 -41651008.05 -41651007.92 0.2563 0.1586

Mercury -118745-04-17 21:37 J -41650080.63 -41650080.60 -41650080.57 0.2784 0.2654

Mercury -118738-04-11 19:13 J -41647530.81 -41647530.70 -41647530.59 0.2781 0.0296

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Mercury -118731-04-04 16:49 J -41644980.87 -41644980.80 -41644980.73 0.2775 0.2067

Mercury -118725-04-13 13:41 J -41642780.03 -41642779.93 -41642779.83 0.2782 0.1134

Mercury -118722-10-09 23:46 J -41641505.65 -41641505.51 -41641505.37 0.2560 0.1201

Mercury -118718-04-07 11:17 J -41640230.13 -41640230.03 -41640229.93 0.2777 0.1230

Mercury -118712-04-16 08:10 J -41638029.24 -41638029.16 -41638029.09 0.2783 0.1973

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Mercury -118702-10-04 17:32 J -41634205.91 -41634205.77 -41634205.64 0.2563 0.1330

Mercury -118698-04-03 03:22 J -41632929.37 -41632929.36 -41632929.35 0.2773 0.2748

Mercury -118692-04-12 00:15 J -41630728.60 -41630728.49 -41630728.39 0.2781 0.0463

Mercury -118689-10-07 00:01 J -41629454.66 -41629454.50 -41629454.34 0.2561 0.0080

Mercury -118685-04-04 21:51 J -41628178.67 -41628178.59 -41628178.51 0.2776 0.1913

Mercury -118679-04-14 18:29 J -41625977.82 -41625977.73 -41625977.63 0.2782 0.1291

Mercury -118676-10-10 06:29 J -41624703.37 -41624703.23 -41624703.10 0.2560 0.1466

Mercury -118672-04-07 16:20 J -41623427.92 -41623427.82 -41623427.72 0.2778 0.1079

Mercury -118669-10-01 17:46 J -41622154.80 -41622154.76 -41622154.72 0.2565 0.2453

Mercury -118666-04-17 12:58 J -41621227.03 -41621226.96 -41621226.89 0.2784 0.2131

Mercury -118659-04-10 10:34 J -41618677.17 -41618677.06 -41618676.95 0.2779 0.0239

Mercury -118656-10-05 00:01 J -41617403.64 -41617403.50 -41617403.35 0.2563 0.1068

Mercury -118652-04-03 08:10 J -41616127.19 -41616127.16 -41616127.12 0.2774 0.2598

Venus -118647-07-02 17:46 J -41614210.92 -41614210.76 -41614210.61 0.2713 0.0389

Mercury -118646-04-13 05:03 J -41613926.40 -41613926.29 -41613926.19 0.2781 0.0605

Mercury -118643-10-08 06:29 J -41612652.39 -41612652.23 -41612652.07 0.2561 0.0329

Mercury -118639-04-06 02:39 J -41611376.47 -41611376.39 -41611376.31 0.2776 0.1758

Mercury -118633-04-14 23:32 J -41609175.62 -41609175.52 -41609175.43 0.2782 0.1449

Mercury -118630-10-11 12:58 J -41607901.07 -41607900.96 -41607900.84 0.2559 0.1730

Mercury -118626-04-08 21:08 J -41606625.72 -41606625.62 -41606625.52 0.2778 0.0919

Mercury -118623-10-03 00:15 J -41605352.57 -41605352.49 -41605352.41 0.2564 0.2196

Mercury -118620-04-17 17:46 J -41604424.82 -41604424.76 -41604424.70 0.2784 0.2288

Mercury -118613-04-10 15:37 J -41601874.96 -41601874.85 -41601874.75 0.2780 0.0120

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Mercury -118606-04-04 13:13 J -41599325.00 -41599324.95 -41599324.91 0.2774 0.2445

Mercury -118600-04-13 09:51 J -41597124.19 -41597124.09 -41597123.98 0.2781 0.0766

Mercury -118597-10-08 13:13 J -41595850.11 -41595849.95 -41595849.79 0.2561 0.0597

Mercury -118593-04-06 07:27 J -41594574.27 -41594574.19 -41594574.10 0.2776 0.1610

Mercury -118587-04-16 04:20 J -41592373.41 -41592373.32 -41592373.23 0.2783 0.1603

Mercury -118584-10-11 19:41 J -41591098.78 -41591098.68 -41591098.58 0.2559 0.1995

Mercury -118580-04-09 01:56 J -41589823.52 -41589823.42 -41589823.31 0.2778 0.0766

Mercury -118577-10-03 06:58 J -41588550.31 -41588550.21 -41588550.11 0.2564 0.1938

Mercury -118574-04-18 22:49 J -41587622.60 -41587622.55 -41587622.50 0.2784 0.2445

Venus -118573-01-11 11:17 J -41587355.20 -41587355.03 -41587354.87 0.2628 0.0226

Mercury -118567-04-11 20:25 J -41585072.76 -41585072.65 -41585072.54 0.2780 0.0084

Mercury -118564-10-06 13:27 J -41583799.10 -41583798.94 -41583798.79 0.2562 0.0546

Mercury -118560-04-04 18:00 J -41582522.81 -41582522.75 -41582522.69 0.2774 0.2290

Mercury -118554-04-14 14:53 J -41580321.99 -41580321.88 -41580321.78 0.2782 0.0924

Mercury -118551-10-09 19:56 J -41579047.82 -41579047.67 -41579047.52 0.2560 0.0860

Mercury -118547-04-07 12:29 J -41577772.07 -41577771.98 -41577771.89 0.2776 0.1450

Mercury -118541-04-16 09:08 J -41575571.20 -41575571.12 -41575571.03 0.2783 0.1765

Mercury -118538-10-13 02:24 J -41574296.47 -41574296.40 -41574296.32 0.2559 0.2264

Mercury -118534-04-10 06:58 J -41573021.32 -41573021.21 -41573021.11 0.2778 0.0621

Mercury -118531-10-04 13:27 J -41571748.06 -41571747.94 -41571747.82 0.2564 0.1682

Mercury -118528-04-19 03:36 J -41570820.39 -41570820.35 -41570820.31 0.2784 0.2601

Mercury -118521-04-12 01:12 J -41568270.56 -41568270.45 -41568270.34 0.2780 0.0245

Mercury -118518-10-07 19:56 J -41566996.83 -41566996.67 -41566996.50 0.2562 0.0290

Mercury -118514-04-05 22:48 J -41565720.61 -41565720.55 -41565720.48 0.2775 0.2137

Mercury -118508-04-14 19:41 J -41563519.78 -41563519.68 -41563519.58 0.2782 0.1078

Mercury -118505-10-10 02:39 J -41562245.54 -41562245.39 -41562245.25 0.2560 0.1128

Mercury -118501-04-07 17:17 J -41560969.87 -41560969.78 -41560969.68 0.2777 0.1296

Mercury -118495-04-17 14:10 J -41558768.99 -41558768.91 -41558768.84 0.2783 0.1922

Mercury -118492-10-13 09:08 J -41557494.14 -41557494.12 -41557494.10 0.2559 0.2526

Mercury -118488-04-10 11:46 J -41556219.12 -41556219.01 -41556218.90 0.2779 0.0452

Mercury -118485-10-04 20:10 J -41554945.79 -41554945.66 -41554945.53 0.2564 0.1422

Mercury -118482-04-20 08:24 J -41554018.16 -41554018.15 -41554018.14 0.2784 0.2765

Mercury -118475-04-13 06:15 J -41551468.35 -41551468.24 -41551468.14 0.2780 0.0401

Mercury -118472-10-08 02:39 J -41550194.55 -41550194.39 -41550194.23 0.2562 0.0023

Mercury -118468-04-06 03:51 J -41548918.42 -41548918.34 -41548918.27 0.2775 0.1987

Mercury -118462-04-16 00:29 J -41546717.57 -41546717.48 -41546717.38 0.2782 0.1236

Mercury -118459-10-11 09:08 J -41545443.25 -41545443.12 -41545442.98 0.2560 0.1387

Mercury -118455-04-08 22:05 J -41544167.67 -41544167.58 -41544167.48 0.2777 0.1144

Mercury -118452-10-02 20:24 J -41542894.66 -41542894.65 -41542894.64 0.2566 0.2554

Mercury -118449-04-17 18:58 J -41541966.78 -41541966.71 -41541966.64 0.2783 0.2079

Mercury -118442-04-11 16:34 J -41539416.92 -41539416.81 -41539416.70 0.2779 0.0304

Mercury -118439-10-06 02:53 J -41538143.52 -41538143.38 -41538143.24 0.2563 0.1155

Mercury -118435-04-04 14:10 J -41536866.93 -41536866.91 -41536866.88 0.2773 0.2668

Mercury -118429-04-13 11:03 J -41534666.15 -41534666.04 -41534665.93 0.2781 0.0550

Mercury -118426-10-09 09:22 J -41533392.27 -41533392.11 -41533391.95 0.2561 0.0248

Mercury -118422-04-07 08:39 J -41532116.22 -41532116.14 -41532116.06 0.2775 0.1828

Mercury -118416-04-16 05:32 J -41529915.37 -41529915.27 -41529915.18 0.2782 0.1396

Mercury -118413-10-11 15:51 J -41528640.96 -41528640.84 -41528640.72 0.2560 0.1655

Mercury -118409-04-09 03:08 J -41527365.47 -41527365.37 -41527365.27 0.2777 0.0987

Mercury -118406-10-04 03:08 J -41526092.44 -41526092.37 -41526092.30 0.2565 0.2290

Venus -118404-07-02 20:39 J -41525454.79 -41525454.64 -41525454.49 0.2716 0.0279

Mercury -118403-04-18 23:46 J -41525164.57 -41525164.51 -41525164.44 0.2783 0.2237

Mercury -118396-04-11 21:36 J -41522614.71 -41522614.60 -41522614.50 0.2779 0.0181

Mercury -118393-10-06 09:22 J -41521341.26 -41521341.11 -41521340.96 0.2563 0.0897

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Mercury -118383-04-14 15:51 J -41517863.94 -41517863.84 -41517863.73 0.2781 0.0708

Mercury -118380-10-09 15:51 J -41516589.99 -41516589.84 -41516589.68 0.2561 0.0516

Mercury -118376-04-07 13:27 J -41515314.02 -41515313.94 -41515313.85 0.2776 0.1674

Mercury -118370-04-17 10:20 J -41513113.16 -41513113.07 -41513112.98 0.2782 0.1552

Mercury -118367-10-12 22:34 J -41511838.67 -41511838.56 -41511838.46 0.2560 0.1921

Mercury -118363-04-10 07:56 J -41510563.27 -41510563.17 -41510563.06 0.2777 0.0828

Mercury -118360-10-04 09:36 J -41509290.19 -41509290.10 -41509290.00 0.2565 0.2034

Mercury -118357-04-19 04:48 J -41508362.36 -41508362.30 -41508362.25 0.2784 0.2397

Mercury -118350-04-13 02:24 J -41505812.51 -41505812.40 -41505812.29 0.2779 0.0026

Mercury -118347-10-07 16:05 J -41504538.98 -41504538.83 -41504538.67 0.2563 0.0630

Mercury -118343-04-06 00:00 J -41503262.56 -41503262.50 -41503262.45 0.2773 0.2360

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Mercury -118334-10-10 22:34 J -41499787.71 -41499787.56 -41499787.40 0.2561 0.0781

Venus -118330-01-11 10:34 J -41498599.23 -41498599.06 -41498598.90 0.2625 0.0294

Mercury -118330-04-08 18:29 J -41498511.82 -41498511.73 -41498511.64 0.2776 0.1516

Mercury -118324-04-17 15:08 J -41496310.95 -41496310.87 -41496310.78 0.2783 0.1708

Mercury -118321-10-13 05:03 J -41495036.37 -41495036.29 -41495036.21 0.2559 0.2187

Mercury -118317-04-10 12:58 J -41493761.07 -41493760.96 -41493760.86 0.2778 0.0679

Mercury -118314-10-05 16:20 J -41492487.93 -41492487.82 -41492487.70 0.2564 0.1770

Mercury -118311-04-20 09:36 J -41491560.14 -41491560.10 -41491560.06 0.2784 0.2554

Mercury -118304-04-13 07:12 J -41489010.31 -41489010.20 -41489010.09 0.2780 0.0188

Mercury -118301-10-07 22:48 J -41487736.71 -41487736.55 -41487736.39 0.2562 0.0367

Mercury -118297-04-06 04:48 J -41486460.36 -41486460.30 -41486460.23 0.2774 0.2207

Mercury -118291-04-16 01:41 J -41484259.53 -41484259.43 -41484259.33 0.2781 0.1020

Mercury -118288-10-11 05:17 J -41482985.43 -41482985.28 -41482985.13 0.2561 0.1044

Mercury -118284-04-08 23:17 J -41481709.62 -41481709.53 -41481709.44 0.2776 0.1361

Mercury -118278-04-18 20:10 J -41479508.74 -41479508.66 -41479508.59 0.2783 0.1870

Mercury -118275-10-14 11:46 J -41478234.05 -41478234.01 -41478233.97 0.2559 0.2456

Mercury -118271-04-11 17:46 J -41476958.87 -41476958.76 -41476958.65 0.2778 0.0513

Mercury -118268-10-05 23:03 J -41475685.67 -41475685.54 -41475685.41 0.2564 0.1505

Mercury -118265-04-20 14:24 J -41474757.92 -41474757.90 -41474757.88 0.2784 0.2712

Mercury -118258-04-14 12:15 J -41472208.10 -41472207.99 -41472207.89 0.2780 0.0344

Mercury -118255-10-09 05:32 J -41470934.43 -41470934.27 -41470934.11 0.2562 0.0101

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Mercury -118245-04-16 06:29 J -41467457.33 -41467457.23 -41467457.13 0.2782 0.1183

Mercury -118242-10-12 12:00 J -41466183.14 -41466183.00 -41466182.86 0.2560 0.1313

Mercury -118238-04-10 04:05 J -41464907.42 -41464907.33 -41464907.23 0.2776 0.1211

Mercury -118232-04-19 00:58 J -41462706.53 -41462706.46 -41462706.39 0.2783 0.2026

Mercury -118225-04-11 22:34 J -41460156.67 -41460156.56 -41460156.45 0.2778 0.0362

Mercury -118222-10-07 05:32 J -41458883.41 -41458883.27 -41458883.13 0.2564 0.1246

Mercury -118218-04-05 20:10 J -41457606.67 -41457606.66 -41457606.65 0.2772 0.2739

Mercury -118212-04-14 17:03 J -41455405.90 -41455405.79 -41455405.68 0.2780 0.0492

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Mercury -118205-04-07 14:39 J -41452855.97 -41452855.89 -41452855.81 0.2774 0.1894

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Mercury -118196-10-12 18:44 J -41449380.85 -41449380.72 -41449380.60 0.2560 0.1584

Mercury -118192-04-10 09:08 J -41448105.22 -41448105.12 -41448105.02 0.2776 0.1046

Mercury -118189-10-04 05:46 J -41446832.31 -41446832.26 -41446832.20 0.2566 0.2389

Mercury -118186-04-20 05:46 J -41445904.32 -41445904.26 -41445904.19 0.2783 0.2191
 Mercury -118179-04-13 03:36 J -41443354.46 -41443354.35 -41443354.25 0.2779 0.0225
 Mercury -118176-10-07 12:15 J -41442081.14 -41442080.99 -41442080.84 0.2564 0.0981
 Mercury -118172-04-06 00:58 J -41440804.49 -41440804.46 -41440804.42 0.2772 0.2588
 Mercury -118166-04-15 21:51 J -41438603.69 -41438603.59 -41438603.48 0.2780 0.0652
 Mercury -118163-10-10 18:44 J -41437329.88 -41437329.72 -41437329.56 0.2562 0.0434
 Venus -118161-07-02 23:46 J -41436698.66 -41436698.51 -41436698.36 0.2720 0.0148
 Mercury -118159-04-08 19:27 J -41436053.77 -41436053.69 -41436053.60 0.2775 0.1740
 Mercury -118153-04-17 16:20 J -41433852.91 -41433852.82 -41433852.73 0.2782 0.1499
 Mercury -118150-10-14 01:12 J -41432578.56 -41432578.45 -41432578.34 0.2560 0.1848
 Mercury -118146-04-11 13:56 J -41431303.02 -41431302.92 -41431302.82 0.2777 0.0892
 Mercury -118143-10-05 12:29 J -41430030.07 -41430029.98 -41430029.89 0.2565 0.2121
 Mercury -118140-04-20 10:48 J -41429102.11 -41429102.05 -41429102.00 0.2783 0.2348
 Mercury -118133-04-13 08:24 J -41426552.26 -41426552.15 -41426552.04 0.2779 0.0046
 Mercury -118130-10-08 18:58 J -41425278.87 -41425278.71 -41425278.56 0.2563 0.0722
 Mercury -118126-04-07 06:00 J -41424002.30 -41424002.25 -41424002.20 0.2773 0.2430
 Mercury -118120-04-16 02:53 J -41421801.49 -41421801.38 -41421801.28 0.2781 0.0814
 Mercury -118117-10-11 01:12 J -41420527.60 -41420527.45 -41420527.29 0.2561 0.0699
 Mercury -118113-04-09 00:29 J -41419251.57 -41419251.48 -41419251.39 0.2775 0.1586
 Mercury -118107-04-18 21:08 J -41417050.70 -41417050.62 -41417050.53 0.2782 0.1659
 Mercury -118104-10-14 07:56 J -41415776.26 -41415776.17 -41415776.08 0.2560 0.2114
 Mercury -118100-04-11 18:44 J -41414500.82 -41414500.72 -41414500.61 0.2777 0.0743
 Mercury -118097-10-05 19:12 J -41413227.81 -41413227.70 -41413227.60 0.2565 0.1861
 Mercury -118094-04-21 15:36 J -41412299.89 -41412299.85 -41412299.81 0.2784 0.2507
 Venus -118087-01-11 09:51 J -41409843.26 -41409843.09 -41409842.93 0.2621 0.0348
 Mercury -118087-04-14 13:12 J -41409750.06 -41409749.95 -41409749.84 0.2779 0.0129
 Mercury -118084-10-09 01:27 J -41408476.59 -41408476.44 -41408476.28 0.2563 0.0451
 Mercury -118080-04-07 10:48 J -41407200.11 -41407200.05 -41407199.99 0.2773 0.2273
 Mercury -118074-04-17 07:41 J -41404999.28 -41404999.18 -41404999.08 0.2781 0.0969
 Mercury -118071-10-12 07:56 J -41403725.32 -41403725.17 -41403725.02 0.2561 0.0964

Mercury -118067-04-10 05:17 J -41402449.37 -41402449.28 -41402449.19 0.2775 0.1425

Mercury -118061-04-19 02:10 J -41400248.49 -41400248.41 -41400248.33 0.2782 0.1820

Mercury -118058-10-15 14:24 J -41398973.96 -41398973.90 -41398973.84 0.2560 0.2380

Mercury -118054-04-12 23:46 J -41397698.62 -41397698.51 -41397698.41 0.2778 0.0579

Mercury -118051-10-07 01:41 J -41396425.55 -41396425.43 -41396425.30 0.2565 0.1595

Mercury -118048-04-21 20:24 J -41395497.67 -41395497.65 -41395497.62 0.2784 0.2666

Mercury -118041-04-14 18:00 J -41392947.85 -41392947.75 -41392947.64 0.2779 0.0295

Mercury -118038-10-10 08:10 J -41391674.32 -41391674.16 -41391674.00 0.2563 0.0187

Mercury -118034-04-08 15:51 J -41390397.91 -41390397.84 -41390397.78 0.2773 0.2118

Mercury -118028-04-17 12:29 J -41388197.08 -41388196.98 -41388196.88 0.2781 0.1127

Mercury -118025-10-12 14:39 J -41386923.03 -41386922.89 -41386922.75 0.2561 0.1236

Mercury -118021-04-10 10:05 J -41385647.17 -41385647.08 -41385646.98 0.2776 0.1272

Mercury -118015-04-20 06:58 J -41383446.28 -41383446.21 -41383446.14 0.2783 0.1979

Mercury -118008-04-13 04:34 J -41380896.42 -41380896.31 -41380896.20 0.2778 0.0419

Mercury -118005-10-07 08:24 J -41379623.29 -41379623.15 -41379623.01 0.2565 0.1331

118TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 118th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-117995-04-15 23:03 J	-41376145.65	-41376145.54	-41376145.43	0.2780	0.0435		
Mercury	-117992-10-10 14:53 J	-41374872.04	-41374871.88	-41374871.72	0.2563	0.0091		

Mercury -117988-04-08 20:39 J -41373595.72 -41373595.64 -41373595.56 0.2774 0.1960
 Mercury -117982-04-18 17:32 J -41371394.87 -41371394.77 -41371394.68 0.2781 0.1291
 Mercury -117979-10-13 21:22 J -41370120.74 -41370120.61 -41370120.48 0.2561 0.1505
 Mercury -117975-04-11 15:08 J -41368844.97 -41368844.87 -41368844.77 0.2776 0.1110
 Mercury -117972-10-05 08:39 J -41367572.18 -41367572.14 -41367572.10 0.2566 0.2469
 Mercury -117969-04-20 11:46 J -41366644.08 -41366644.01 -41366643.94 0.2783 0.2137
 Mercury -117962-04-14 09:36 J -41364094.21 -41364094.10 -41364094.00 0.2778 0.0280
 Mercury -117959-10-08 15:08 J -41362821.02 -41362820.87 -41362820.73 0.2564 0.1068
 Mercury -117955-04-07 06:58 J -41361544.23 -41361544.21 -41361544.18 0.2772 0.2653
 Mercury -117949-04-16 03:51 J -41359343.44 -41359343.34 -41359343.23 0.2780 0.0600
 Mercury -117946-10-11 21:22 J -41358069.77 -41358069.61 -41358069.45 0.2562 0.0352
 Mercury -117942-04-10 01:27 J -41356793.52 -41356793.44 -41356793.36 0.2774 0.1806
 Mercury -117936-04-18 22:20 J -41354592.66 -41354592.57 -41354592.48 0.2782 0.1446
 Mercury -117933-10-14 03:51 J -41353318.45 -41353318.34 -41353318.22 0.2561 0.1775
 Mercury -117929-04-11 19:56 J -41352042.77 -41352042.67 -41352042.57 0.2776 0.0952
 Mercury -117926-10-06 15:08 J -41350769.94 -41350769.87 -41350769.79 0.2566 0.2214
 Mercury -117923-04-21 16:48 J -41349841.86 -41349841.80 -41349841.75 0.2783 0.2301
 Venus -117918-07-04 02:24 J -41347942.55 -41347942.40 -41347942.25 0.2723 0.0073
 Mercury -117916-04-14 14:24 J -41347292.01 -41347291.90 -41347291.79 0.2778 0.0100
 Mercury -117913-10-08 21:36 J -41346018.75 -41346018.60 -41346018.44 0.2564 0.0796
 Mercury -117909-04-07 12:00 J -41344742.05 -41344742.00 -41344741.96 0.2772 0.2498
 Mercury -117903-04-17 08:53 J -41342541.24 -41342541.13 -41342541.03 0.2780 0.0760
 Mercury -117900-10-12 04:05 J -41341267.49 -41341267.33 -41341267.17 0.2562 0.0621
 Mercury -117896-04-10 06:29 J -41339991.32 -41339991.23 -41339991.15 0.2774 0.1647
 Mercury -117890-04-20 03:08 J -41337790.45 -41337790.37 -41337790.28 0.2782 0.1612
 Mercury -117887-10-15 10:34 J -41336516.15 -41336516.06 -41336515.96 0.2560 0.2044
 Mercury -117883-04-13 00:44 J -41335240.57 -41335240.47 -41335240.36 0.2777 0.0803
 Mercury -117880-10-06 21:51 J -41333967.69 -41333967.59 -41333967.48 0.2566 0.1945
 Mercury -117877-04-21 21:36 J -41333039.65 -41333039.60 -41333039.55 0.2783 0.2459
 Mercury -117870-04-15 19:12 J -41330489.81 -41330489.70 -41330489.59 0.2778 0.0072

Mercury -117867-10-10 04:05 J -41329216.48 -41329216.33 -41329216.17 0.2564 0.0541
 Mercury -117863-04-08 16:48 J -41327939.85 -41327939.80 -41327939.74 0.2772 0.2341
 Mercury -117857-04-17 13:41 J -41325739.03 -41325738.93 -41325738.83 0.2780 0.0914
 Mercury -117854-10-13 10:48 J -41324465.21 -41324465.05 -41324464.90 0.2562 0.0894
 Mercury -117850-04-11 11:17 J -41323189.12 -41323189.03 -41323188.94 0.2774 0.1489
 Venus -117844-01-11 09:36 J -41321087.27 -41321087.10 -41321086.94 0.2618 0.0461
 Mercury -117844-04-20 08:10 J -41320988.25 -41320988.16 -41320988.08 0.2782 0.1771
 Mercury -117841-10-15 17:17 J -41319713.85 -41319713.78 -41319713.71 0.2560 0.2317
 Mercury -117837-04-13 05:46 J -41318438.37 -41318438.26 -41318438.16 0.2777 0.0637
 Mercury -117834-10-08 04:20 J -41317165.44 -41317165.32 -41317165.20 0.2566 0.1689
 Mercury -117831-04-23 02:24 J -41316237.43 -41316237.40 -41316237.36 0.2783 0.2624
 Mercury -117824-04-16 00:15 J -41313687.60 -41313687.49 -41313687.39 0.2779 0.0243
 Mercury -117821-10-10 10:48 J -41312414.21 -41312414.05 -41312413.89 0.2563 0.0268
 Mercury -117817-04-08 21:51 J -41311137.66 -41311137.59 -41311137.53 0.2773 0.2187
 Mercury -117811-04-18 18:29 J -41308936.83 -41308936.73 -41308936.63 0.2781 0.1077
 Mercury -117808-10-13 17:17 J -41307662.92 -41307662.78 -41307662.63 0.2561 0.1159
 Mercury -117804-04-11 16:05 J -41306386.92 -41306386.83 -41306386.73 0.2775 0.1334
 Mercury -117798-04-21 12:58 J -41304186.04 -41304185.96 -41304185.88 0.2782 0.1929
 Mercury -117791-04-14 10:34 J -41301636.17 -41301636.06 -41301635.95 0.2777 0.0478
 Mercury -117788-10-08 11:03 J -41300363.17 -41300363.04 -41300362.91 0.2565 0.1419
 Mercury -117785-04-23 07:27 J -41299435.19 -41299435.19 -41299435.19 0.2784 0.2783
 Mercury -117778-04-17 05:03 J -41296885.40 -41296885.29 -41296885.18 0.2779 0.0382
 Mercury -117775-10-11 17:32 J -41295611.94 -41295611.77 -41295611.61 0.2563 0.0057
 Mercury -117771-04-10 02:39 J -41294335.46 -41294335.39 -41294335.32 0.2773 0.2026
 Mercury -117765-04-18 23:32 J -41292134.62 -41292134.52 -41292134.43 0.2781 0.1239
 Mercury -117762-10-15 00:00 J -41290860.64 -41290860.50 -41290860.37 0.2561 0.1429
 Mercury -117758-04-12 21:08 J -41289584.72 -41289584.62 -41289584.53 0.2775 0.1176
 Mercury -117755-10-06 11:17 J -41288312.03 -41288312.03 -41288312.02 0.2567 0.2566
 Mercury -117752-04-21 17:46 J -41287383.83 -41287383.76 -41287383.69 0.2783 0.2092
 Mercury -117745-04-14 15:36 J -41284833.96 -41284833.85 -41284833.75 0.2777 0.0336

Mercury -117742-10-09 17:46 J -41283560.90 -41283560.76 -41283560.62 0.2565 0.1149

Mercury -117738-04-08 12:58 J -41282283.97 -41282283.96 -41282283.94 0.2771 0.2723

Mercury -117732-04-17 09:51 J -41280083.19 -41280083.09 -41280082.98 0.2779 0.0542

Mercury -117729-10-12 00:15 J -41278809.65 -41278809.49 -41278809.33 0.2563 0.0281

Mercury -117725-04-10 07:27 J -41277533.27 -41277533.19 -41277533.11 0.2773 0.1869

Mercury -117719-04-20 04:20 J -41275332.41 -41275332.32 -41275332.23 0.2781 0.1398

Mercury -117716-10-15 06:44 J -41274058.34 -41274058.22 -41274058.10 0.2561 0.1701

Mercury -117712-04-13 01:56 J -41272782.52 -41272782.42 -41272782.32 0.2776 0.1012

Mercury -117709-10-06 18:00 J -41271509.82 -41271509.75 -41271509.68 0.2567 0.2295

Mercury -117706-04-22 22:48 J -41270581.62 -41270581.55 -41270581.49 0.2783 0.2254

Mercury -117699-04-15 20:24 J -41268031.76 -41268031.65 -41268031.54 0.2778 0.0161

Mercury -117696-10-10 00:15 J -41266758.64 -41266758.49 -41266758.33 0.2565 0.0886

Mercury -117692-04-08 18:00 J -41265481.79 -41265481.75 -41265481.71 0.2771 0.2564

Mercury -117686-04-18 14:53 J -41263280.99 -41263280.88 -41263280.78 0.2780 0.0710

Mercury -117683-10-13 06:44 J -41262007.37 -41262007.22 -41262007.06 0.2563 0.0546

Mercury -117679-04-11 12:29 J -41260731.07 -41260730.98 -41260730.90 0.2773 0.1712

Venus -117675-07-04 05:17 J -41259186.43 -41259186.28 -41259186.13 0.2726 0.0028

Mercury -117673-04-20 09:08 J -41258530.21 -41258530.12 -41258530.03 0.2781 0.1559

Mercury -117670-10-16 13:27 J -41257256.04 -41257255.94 -41257255.84 0.2561 0.1980

Mercury -117666-04-14 06:44 J -41255980.32 -41255980.22 -41255980.11 0.2776 0.0861

Mercury -117663-10-08 00:29 J -41254707.57 -41254707.48 -41254707.38 0.2567 0.2039

Mercury -117660-04-23 03:36 J -41253779.40 -41253779.35 -41253779.30 0.2783 0.2414

Mercury -117653-04-16 01:12 J -41251229.56 -41251229.45 -41251229.34 0.2778 0.0064

Mercury -117650-10-11 06:58 J -41249956.36 -41249956.21 -41249956.05 0.2564 0.0613

Mercury -117646-04-09 22:48 J -41248679.60 -41248679.55 -41248679.50 0.2771 0.2407

Mercury -117640-04-18 19:41 J -41246478.78 -41246478.68 -41246478.58 0.2780 0.0863

Mercury -117637-10-13 13:27 J -41245205.09 -41245204.94 -41245204.79 0.2562 0.0819

Mercury -117633-04-11 17:17 J -41243928.87 -41243928.78 -41243928.69 0.2774 0.1550

Mercury -117627-04-21 14:10 J -41241728.00 -41241727.91 -41241727.83 0.2782 0.1724

Mercury -117624-10-16 19:56 J -41240453.74 -41240453.67 -41240453.59 0.2561 0.2248

Mercury -117620-04-14 11:46 J -41239178.12 -41239178.01 -41239177.91 0.2776 0.0695

Mercury -117617-10-08 07:12 J -41237905.31 -41237905.20 -41237905.08 0.2566 0.1767

Mercury -117614-04-24 08:24 J -41236977.19 -41236977.15 -41236977.11 0.2783 0.2575

Mercury -117607-04-17 06:15 J -41234427.35 -41234427.24 -41234427.14 0.2778 0.0193

Mercury -117604-10-11 13:41 J -41233154.09 -41233153.93 -41233153.77 0.2564 0.0353

Venus -117601-01-12 08:53 J -41232331.29 -41232331.13 -41232330.97 0.2615 0.0538

Mercury -117600-04-10 03:36 J -41231877.41 -41231877.35 -41231877.28 0.2772 0.2251

Mercury -117594-04-20 00:29 J -41229676.58 -41229676.48 -41229676.38 0.2780 0.1027

Mercury -117591-10-14 20:10 J -41228402.81 -41228402.66 -41228402.52 0.2562 0.1089

Mercury -117587-04-12 22:05 J -41227126.67 -41227126.58 -41227126.48 0.2774 0.1394

Mercury -117581-04-21 18:58 J -41224925.79 -41224925.71 -41224925.63 0.2782 0.1882

Mercury -117578-10-18 02:39 J -41223651.41 -41223651.39 -41223651.37 0.2560 0.2524

Mercury -117574-04-15 16:34 J -41222375.91 -41222375.81 -41222375.70 0.2776 0.0534

Mercury -117571-10-09 13:56 J -41221103.05 -41221102.92 -41221102.79 0.2566 0.1504

Mercury -117568-04-24 13:27 J -41220174.96 -41220174.94 -41220174.93 0.2783 0.2740

Mercury -117561-04-17 11:03 J -41217625.15 -41217625.04 -41217624.93 0.2779 0.0326

Mercury -117558-10-12 20:24 J -41216351.82 -41216351.65 -41216351.49 0.2564 0.0103

Mercury -117554-04-11 08:39 J -41215075.21 -41215075.14 -41215075.07 0.2772 0.2093

Mercury -117548-04-20 05:32 J -41212874.37 -41212874.27 -41212874.18 0.2780 0.1191

Mercury -117545-10-15 02:39 J -41211600.52 -41211600.39 -41211600.25 0.2562 0.1361

Mercury -117541-04-13 03:08 J -41210324.47 -41210324.37 -41210324.28 0.2774 0.1233

Mercury -117535-04-22 23:46 J -41208123.58 -41208123.51 -41208123.43 0.2782 0.2048

Mercury -117528-04-15 21:22 J -41205573.71 -41205573.61 -41205573.50 0.2777 0.0393

Mercury -117525-10-09 20:24 J -41204300.79 -41204300.65 -41204300.51 0.2566 0.1234

Mercury -117515-04-18 15:51 J -41200822.94 -41200822.84 -41200822.73 0.2779 0.0490

Mercury -117512-10-13 02:53 J -41199549.54 -41199549.38 -41199549.22 0.2563 0.0195

Mercury -117508-04-11 13:27 J -41198273.02 -41198272.94 -41198272.86 0.2772 0.1932

Mercury -117502-04-21 10:20 J -41196072.16 -41196072.07 -41196071.98 0.2781 0.1348

Mercury -117499-10-16 09:22 J -41194798.23 -41194798.11 -41194797.98 0.2562 0.1639

Mercury -117495-04-14 07:56 J -41193522.27 -41193522.17 -41193522.07 0.2775 0.1074

Mercury -117492-10-07 20:39 J -41192249.69 -41192249.64 -41192249.58 0.2568 0.2390

Mercury -117489-04-23 04:48 J -41191321.37 -41191321.30 -41191321.24 0.2782 0.2208

Mercury -117482-04-17 02:24 J -41188771.51 -41188771.40 -41188771.29 0.2777 0.0215

Mercury -117479-10-11 03:08 J -41187498.52 -41187498.37 -41187498.22 0.2565 0.0967

Mercury -117475-04-10 00:00 J -41186221.53 -41186221.50 -41186221.47 0.2770 0.2631

Mercury -117469-04-18 20:53 J -41184020.74 -41184020.63 -41184020.53 0.2779 0.0658

Mercury -117466-10-14 09:36 J -41182747.26 -41182747.10 -41182746.94 0.2563 0.0473

Mercury -117462-04-12 18:29 J -41181470.82 -41181470.73 -41181470.65 0.2773 0.1773

Mercury -117456-04-21 15:08 J -41179269.96 -41179269.87 -41179269.78 0.2781 0.1512

Mercury -117453-10-16 16:05 J -41177995.94 -41177995.83 -41177995.73 0.2561 0.1906

Mercury -117449-04-14 12:44 J -41176720.07 -41176719.97 -41176719.86 0.2775 0.0919

Mercury -117446-10-09 03:22 J -41175447.45 -41175447.36 -41175447.27 0.2567 0.2116

Mercury -117443-04-24 09:36 J -41174519.15 -41174519.10 -41174519.05 0.2782 0.2369

Mercury -117436-04-17 07:12 J -41171969.31 -41171969.20 -41171969.09 0.2777 0.0064

Mercury -117433-10-11 09:36 J -41170696.25 -41170696.10 -41170695.94 0.2565 0.0698

Venus -117432-07-04 07:41 J -41170430.33 -41170430.18 -41170430.03 0.2729 0.0073

Mercury -117429-04-10 04:48 J -41169419.35 -41169419.30 -41169419.25 0.2770 0.2470

Mercury -117423-04-20 01:41 J -41167218.53 -41167218.43 -41167218.33 0.2779 0.0812

Mercury -117420-10-14 16:05 J -41165944.98 -41165944.83 -41165944.67 0.2563 0.0740

Mercury -117416-04-12 23:17 J -41164668.62 -41164668.53 -41164668.44 0.2773 0.1612

Mercury -117410-04-22 20:10 J -41162467.75 -41162467.66 -41162467.58 0.2781 0.1674

Mercury -117407-10-17 22:34 J -41161193.64 -41161193.56 -41161193.47 0.2561 0.2184

Mercury -117403-04-15 17:46 J -41159917.87 -41159917.76 -41159917.66 0.2775 0.0752

Mercury -117400-10-09 10:05 J -41158645.19 -41158645.08 -41158644.97 0.2567 0.1853

Mercury -117397-04-24 14:24 J -41157716.94 -41157716.90 -41157716.86 0.2783 0.2534

Mercury -117390-04-18 12:15 J -41155167.10 -41155166.99 -41155166.89 0.2778 0.0155

Mercury -117387-10-12 16:20 J -41153893.97 -41153893.82 -41153893.66 0.2565 0.0423

Mercury -117383-04-11 09:36 J -41152617.15 -41152617.10 -41152617.04 0.2771 0.2316

Mercury -117377-04-20 06:29 J -41150416.33 -41150416.23 -41150416.13 0.2780 0.0974

Mercury -117374-10-15 22:48 J -41149142.70 -41149142.55 -41149142.40 0.2563 0.1019

Mercury -117370-04-14 04:05 J -41147866.42 -41147866.33 -41147866.23 0.2773 0.1454

Mercury -117364-04-23 00:58 J -41145665.54 -41145665.46 -41145665.38 0.2781 0.1836

Mercury -117361-10-18 05:17 J -41144391.32 -41144391.28 -41144391.24 0.2561 0.2455

Venus -117358-01-12 08:53 J -41143575.29 -41143575.13 -41143574.97 0.2612 0.0671

Mercury -117357-04-15 22:34 J -41143115.66 -41143115.56 -41143115.45 0.2776 0.0590

Mercury -117354-10-10 16:34 J -41141842.93 -41141842.81 -41141842.68 0.2567 0.1580

Mercury -117351-04-25 19:27 J -41140914.72 -41140914.69 -41140914.67 0.2783 0.2696

Mercury -117344-04-18 17:03 J -41138364.90 -41138364.79 -41138364.68 0.2778 0.0277

Mercury -117341-10-12 23:03 J -41137091.70 -41137091.54 -41137091.38 0.2564 0.0153

Mercury -117337-04-11 14:39 J -41135814.96 -41135814.89 -41135814.83 0.2771 0.2153

Mercury -117331-04-21 11:32 J -41133614.12 -41133614.02 -41133613.93 0.2780 0.1141

Mercury -117328-10-16 05:32 J -41132340.41 -41132340.27 -41132340.13 0.2562 0.1295

Mercury -117324-04-14 09:08 J -41131064.22 -41131064.12 -41131064.03 0.2774 0.1293

Mercury -117318-04-24 05:46 J -41128863.33 -41128863.26 -41128863.18 0.2782 0.1999

Mercury -117311-04-17 03:22 J -41126313.46 -41126313.36 -41126313.25 0.2776 0.0445

Mercury -117308-10-10 23:17 J -41125040.67 -41125040.53 -41125040.40 0.2566 0.1316

Mercury -117298-04-19 21:51 J -41121562.69 -41121562.59 -41121562.48 0.2778 0.0443

Mercury -117295-10-14 05:46 J -41120289.42 -41120289.26 -41120289.10 0.2564 0.0136

Mercury -117291-04-12 19:27 J -41119012.76 -41119012.69 -41119012.61 0.2771 0.1993

Mercury -117285-04-21 16:20 J -41116811.92 -41116811.82 -41116811.73 0.2780 0.1300

Mercury -117282-10-17 12:15 J -41115538.12 -41115537.99 -41115537.87 0.2562 0.1569

Mercury -117278-04-15 13:56 J -41114262.02 -41114261.92 -41114261.82 0.2774 0.1129

Mercury -117275-10-08 23:32 J -41112989.56 -41112989.52 -41112989.48 0.2568 0.2469

Mercury -117272-04-24 10:48 J -41112061.12 -41112061.05 -41112060.99 0.2782 0.2166

Mercury -117265-04-17 08:24 J -41109511.26 -41109511.15 -41109511.04 0.2776 0.0270

Mercury -117262-10-12 05:46 J -41108238.40 -41108238.26 -41108238.11 0.2566 0.1043

Mercury -117258-04-11 06:00 J -41106961.28 -41106961.25 -41106961.23 0.2769 0.2698

Mercury -117252-04-20 02:53 J -41104760.49 -41104760.38 -41104760.28 0.2778 0.0606

Mercury -117249-10-14 12:15 J -41103487.15 -41103486.99 -41103486.83 0.2564 0.0395

Mercury -117245-04-13 00:29 J -41102210.57 -41102210.48 -41102210.40 0.2772 0.1836

Mercury -117239-04-22 21:08 J -41100009.71 -41100009.62 -41100009.53 0.2780 0.1467

Mercury -117236-10-17 18:44 J -41098735.83 -41098735.72 -41098735.61 0.2562 0.1844

Mercury -117232-04-15 18:44 J -41097459.82 -41097459.72 -41097459.61 0.2774 0.0973

Mercury -117229-10-09 06:15 J -41096187.32 -41096187.24 -41096187.16 0.2568 0.2205

Mercury -117226-04-25 15:36 J -41095258.91 -41095258.85 -41095258.79 0.2782 0.2327

Mercury -117219-04-18 13:12 J -41092709.06 -41092708.95 -41092708.84 0.2777 0.0119

Mercury -117216-10-12 12:29 J -41091436.13 -41091435.98 -41091435.82 0.2566 0.0770

Mercury -117212-04-11 10:48 J -41090159.09 -41090159.05 -41090159.01 0.2770 0.2535

Mercury -117206-04-21 07:41 J -41087958.28 -41087958.18 -41087958.08 0.2779 0.0762

Mercury -117203-10-15 18:58 J -41086684.87 -41086684.71 -41086684.56 0.2564 0.0675

Mercury -117199-04-14 05:17 J -41085408.37 -41085408.28 -41085408.20 0.2772 0.1674

Mercury -117193-04-23 02:10 J -41083207.50 -41083207.41 -41083207.33 0.2781 0.1630

Mercury -117190-10-19 01:27 J -41081933.53 -41081933.44 -41081933.35 0.2562 0.2116

Venus -117189-07-04 10:20 J -41081674.22 -41081674.07 -41081673.92 0.2733 0.0138

Mercury -117186-04-16 23:46 J -41080657.62 -41080657.51 -41080657.41 0.2775 0.0810

Mercury -117183-10-10 12:44 J -41079385.07 -41079384.97 -41079384.86 0.2568 0.1931

Mercury -117180-04-25 20:24 J -41078456.69 -41078456.65 -41078456.60 0.2782 0.2492

Mercury -117173-04-18 18:00 J -41075906.85 -41075906.75 -41075906.64 0.2777 0.0135

Mercury -117170-10-13 18:58 J -41074633.86 -41074633.71 -41074633.55 0.2565 0.0505

Mercury -117166-04-12 15:36 J -41073356.90 -41073356.85 -41073356.79 0.2770 0.2376

Mercury -117160-04-21 12:29 J -41071156.08 -41071155.98 -41071155.88 0.2779 0.0930

Mercury -117157-10-16 01:27 J -41069882.59 -41069882.44 -41069882.29 0.2563 0.0946

Mercury -117153-04-14 10:05 J -41068606.17 -41068606.08 -41068605.99 0.2773 0.1512

Mercury -117147-04-24 06:58 J -41066405.29 -41066405.21 -41066405.13 0.2781 0.1791

Mercury -117144-10-19 08:10 J -41065131.22 -41065131.16 -41065131.11 0.2561 0.2398

Mercury -117140-04-17 04:34 J -41063855.41 -41063855.31 -41063855.20 0.2775 0.0647

Mercury -117137-10-10 19:27 J -41062582.81 -41062582.69 -41062582.57 0.2568 0.1666

Mercury -117134-04-27 01:27 J -41061654.47 -41061654.44 -41061654.41 0.2782 0.2655

Mercury -117127-04-19 23:03 J -41059104.65 -41059104.54 -41059104.43 0.2777 0.0223

Mercury -117124-10-14 01:41 J -41057831.59 -41057831.43 -41057831.27 0.2565 0.0227

Mercury -117120-04-12 20:39 J -41056554.71 -41056554.64 -41056554.58 0.2770 0.2214

Venus -117115-01-12 08:53 J -41054819.29 -41054819.13 -41054818.98 0.2608 0.0797

Mercury -117114-04-22 17:32 J -41054353.87 -41054353.77 -41054353.67 0.2779 0.1093

Mercury -117111-10-17 08:10 J -41053080.30 -41053080.16 -41053080.02 0.2563 0.1224

Mercury -117107-04-15 15:08 J -41051803.97 -41051803.87 -41051803.78 0.2773 0.1350

Mercury -117101-04-24 11:46 J -41049603.08 -41049603.01 -41049602.93 0.2781 0.1957

Mercury -117094-04-18 09:22 J -41047053.21 -41047053.11 -41047053.00 0.2775 0.0495

Mercury -117091-10-12 02:10 J -41045780.55 -41045780.41 -41045780.28 0.2567 0.1390

Mercury -117081-04-20 03:51 J -41042302.44 -41042302.34 -41042302.23 0.2778 0.0390

Mercury -117078-10-15 08:24 J -41041029.31 -41041029.15 -41041028.99 0.2565 0.0061

Mercury -117074-04-14 01:27 J -41039752.51 -41039752.44 -41039752.37 0.2771 0.2054

Mercury -117068-04-22 22:20 J -41037551.67 -41037551.57 -41037551.47 0.2779 0.1253

Mercury -117065-10-17 14:53 J -41036278.01 -41036277.88 -41036277.75 0.2563 0.1498

Mercury -117061-04-15 19:56 J -41035001.77 -41035001.67 -41035001.57 0.2773 0.1187

Mercury -117058-10-10 02:24 J -41033729.42 -41033729.40 -41033729.39 0.2569 0.2550

Mercury -117055-04-25 16:48 J -41032800.87 -41032800.80 -41032800.74 0.2781 0.2120

Mercury -117048-04-18 14:24 J -41030251.01 -41030250.90 -41030250.79 0.2776 0.0318

Mercury -117045-10-12 08:39 J -41028978.28 -41028978.14 -41028977.99 0.2567 0.1117

Mercury -117041-04-11 12:00 J -41027701.01 -41027701.00 -41027701.00 0.2768 0.2758

Mercury -117035-04-21 08:53 J -41025500.24 -41025500.13 -41025500.03 0.2778 0.0557

Mercury -117032-10-15 15:08 J -41024227.03 -41024226.87 -41024226.71 0.2565 0.0332

Mercury -117028-04-14 06:15 J -41022950.31 -41022950.24 -41022950.16 0.2771 0.1898

Mercury -117022-04-24 03:08 J -41020749.46 -41020749.37 -41020749.27 0.2780 0.1419

Mercury -117019-10-18 21:36 J -41019475.72 -41019475.60 -41019475.49 0.2563 0.1779

Mercury -117015-04-17 00:44 J -41018199.57 -41018199.47 -41018199.36 0.2774 0.1030

Mercury -117012-10-10 08:53 J -41016927.20 -41016927.13 -41016927.05 0.2569 0.2281

Mercury -117009-04-25 21:36 J -41015998.66 -41015998.60 -41015998.54 0.2781 0.2284

Mercury -117002-04-19 19:12 J -41013448.81 -41013448.70 -41013448.59 0.2776 0.0167

117TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 117th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-116999-10-13 15:22 J	-41012176.02	-41012175.86	-41012175.71	0.2566	0.0846		
Mercury	-116995-04-12 16:48 J	-41010898.83	-41010898.80	-41010898.77	0.2769	0.2597		
Mercury	-116989-04-21 13:41 J	-41008698.03	-41008697.93	-41008697.83	0.2778	0.0715		
Mercury	-116986-10-16 21:36 J	-41007424.75	-41007424.60	-41007424.44	0.2564	0.0603		
Mercury	-116982-04-15 11:17 J	-41006148.12	-41006148.03	-41006147.95	0.2771	0.1728		
Mercury	-116976-04-24 08:10 J	-41003947.25	-41003947.16	-41003947.07	0.2780	0.1587		
Mercury	-116973-10-19 04:20 J	-41002673.42	-41002673.32	-41002673.23	0.2562	0.2062		
Mercury	-116969-04-17 05:46 J	-41001397.37	-41001397.26	-41001397.16	0.2774	0.0863		
Mercury	-116966-10-11 15:36 J	-41000124.95	-41000124.85	-41000124.76	0.2569	0.2014		
Mercury	-116963-04-27 02:24 J	-40999196.45	-40999196.40	-40999196.35	0.2782	0.2450		
Mercury	-116956-04-20 00:15 J	-40996646.60	-40996646.49	-40996646.39	0.2776	0.0093		
Mercury	-116953-10-13 21:51 J	-40995373.75	-40995373.59	-40995373.43	0.2566	0.0573		
Mercury	-116949-04-12 21:36 J	-40994096.65	-40994096.60	-40994096.55	0.2769	0.2438		
Venus	-116946-07-05 12:29 J	-40992918.13	-40992917.98	-40992917.83	0.2736	0.0154		
Mercury	-116943-04-22 18:29 J	-40991895.83	-40991895.73	-40991895.62	0.2778	0.0884		
Mercury	-116940-10-17 04:20 J	-40990622.47	-40990622.32	-40990622.17	0.2564	0.0885		
Mercury	-116936-04-15 16:05 J	-40989345.92	-40989345.83	-40989345.74	0.2772	0.1570		
Mercury	-116930-04-25 12:58 J	-40987145.04	-40987144.96	-40987144.88	0.2780	0.1748		

Mercury -116927-10-20 10:48 J -40985871.11 -40985871.05 -40985870.99 0.2562 0.2335

Mercury -116923-04-18 10:34 J -40984595.16 -40984595.06 -40984594.95 0.2774 0.0698

Mercury -116920-10-11 22:05 J -40983322.69 -40983322.58 -40983322.46 0.2568 0.1742

Mercury -116917-04-27 07:27 J -40982394.23 -40982394.19 -40982394.16 0.2782 0.2617

Mercury -116910-04-21 05:03 J -40979844.40 -40979844.29 -40979844.18 0.2777 0.0174

Mercury -116907-10-15 04:34 J -40978571.47 -40978571.31 -40978571.15 0.2566 0.0304

Mercury -116903-04-14 02:39 J -40977294.45 -40977294.39 -40977294.33 0.2769 0.2279

Mercury -116897-04-22 23:32 J -40975093.62 -40975093.52 -40975093.42 0.2779 0.1046

Mercury -116894-10-18 10:48 J -40973820.19 -40973820.05 -40973819.90 0.2564 0.1156

Mercury -116890-04-16 21:08 J -40972543.72 -40972543.62 -40972543.53 0.2772 0.1411

Mercury -116884-04-25 17:46 J -40970342.83 -40970342.76 -40970342.68 0.2780 0.1915

Mercury -116877-04-18 15:36 J -40967792.96 -40967792.85 -40967792.75 0.2775 0.0548

Mercury -116874-10-13 04:48 J -40966520.43 -40966520.30 -40966520.17 0.2568 0.1470

Venus -116872-01-12 09:08 J -40966063.28 -40966063.12 -40966062.97 0.2605 0.0945

Mercury -116871-04-28 12:15 J -40965591.99 -40965591.99 -40965591.99 0.2782 0.2779

Venus -116864-01-09 22:48 J -40963143.57 -40963143.55 -40963143.53 0.2601 0.2565

Mercury -116864-04-21 09:51 J -40963042.19 -40963042.09 -40963041.98 0.2777 0.0348

Mercury -116861-10-15 11:03 J -40961769.20 -40961769.04 -40961768.87 0.2566 0.0075

Mercury -116857-04-14 07:27 J -40960492.26 -40960492.19 -40960492.12 0.2770 0.2114

Mercury -116851-04-24 04:19 J -40958291.42 -40958291.32 -40958291.22 0.2779 0.1209

Mercury -116848-10-18 17:31 J -40957017.90 -40957017.77 -40957017.63 0.2563 0.1437

Mercury -116844-04-17 01:55 J -40955741.52 -40955741.42 -40955741.32 0.2772 0.1244

Mercury -116838-04-26 22:48 J -40953540.62 -40953540.55 -40953540.48 0.2781 0.2079

Mercury -116831-04-19 20:24 J -40950990.76 -40950990.65 -40950990.54 0.2775 0.0374

Mercury -116828-10-13 11:17 J -40949718.17 -40949718.03 -40949717.88 0.2568 0.1195

Mercury -116818-04-22 14:53 J -40946239.99 -40946239.88 -40946239.78 0.2777 0.0513

Mercury -116815-10-16 17:46 J -40944966.92 -40944966.76 -40944966.60 0.2565 0.0256

Mercury -116811-04-15 12:15 J -40943690.06 -40943689.99 -40943689.91 0.2770 0.1953

Mercury -116805-04-24 09:07 J -40941489.21 -40941489.12 -40941489.02 0.2779 0.1379

Mercury -116802-10-20 00:15 J -40940215.61 -40940215.49 -40940215.37 0.2563 0.1716

Mercury -116798-04-18 06:43 J -40938939.32 -40938939.22 -40938939.12 0.2773 0.1083
 Mercury -116795-10-11 11:46 J -40937667.07 -40937667.01 -40937666.95 0.2570 0.2361
 Mercury -116792-04-27 03:36 J -40936738.41 -40936738.35 -40936738.29 0.2781 0.2244
 Mercury -116785-04-20 01:12 J -40934188.56 -40934188.45 -40934188.34 0.2775 0.0214
 Mercury -116782-10-14 18:00 J -40932915.90 -40932915.75 -40932915.60 0.2567 0.0920
 Mercury -116778-04-13 22:48 J -40931638.58 -40931638.55 -40931638.53 0.2768 0.2659
 Mercury -116772-04-22 19:41 J -40929437.79 -40929437.68 -40929437.58 0.2778 0.0667
 Mercury -116769-10-17 00:29 J -40928164.64 -40928164.48 -40928164.32 0.2565 0.0539
 Mercury -116765-04-15 17:17 J -40926887.86 -40926887.78 -40926887.70 0.2770 0.1787
 Mercury -116759-04-25 14:10 J -40924687.00 -40924686.91 -40924686.82 0.2779 0.1540
 Mercury -116756-10-20 06:58 J -40923413.31 -40923413.21 -40923413.11 0.2563 0.1998
 Mercury -116752-04-18 11:46 J -40922137.11 -40922137.01 -40922136.91 0.2773 0.0914
 Mercury -116749-10-11 18:29 J -40920864.83 -40920864.73 -40920864.64 0.2569 0.2088
 Mercury -116746-04-28 08:24 J -40919936.20 -40919936.15 -40919936.10 0.2781 0.2410
 Mercury -116739-04-21 06:15 J -40917386.35 -40917386.24 -40917386.14 0.2776 0.0104
 Mercury -116736-10-15 00:43 J -40916113.63 -40916113.47 -40916113.32 0.2567 0.0641
 Mercury -116732-04-14 03:36 J -40914836.39 -40914836.35 -40914836.30 0.2768 0.2498
 Mercury -116726-04-24 00:29 J -40912635.58 -40912635.48 -40912635.37 0.2778 0.0836
 Mercury -116723-10-18 06:58 J -40911362.36 -40911362.21 -40911362.05 0.2565 0.0815
 Mercury -116719-04-16 22:05 J -40910085.66 -40910085.58 -40910085.49 0.2771 0.1626
 Mercury -116713-04-25 18:58 J -40907884.79 -40907884.71 -40907884.63 0.2780 0.1704
 Mercury -116710-10-21 13:41 J -40906611.01 -40906610.93 -40906610.86 0.2563 0.2279
 Mercury -116706-04-19 16:34 J -40905334.91 -40905334.81 -40905334.70 0.2773 0.0752
 Venus -116703-07-05 14:53 J -40904162.03 -40904161.88 -40904161.73 0.2739 0.0190
 Mercury -116703-10-13 00:58 J -40904062.57 -40904062.46 -40904062.35 0.2569 0.1815
 Mercury -116700-04-28 13:27 J -40903133.98 -40903133.94 -40903133.91 0.2781 0.2574
 Mercury -116693-04-21 11:03 J -40900584.15 -40900584.04 -40900583.93 0.2776 0.0126
 Mercury -116690-10-16 07:27 J -40899311.35 -40899311.19 -40899311.04 0.2567 0.0369
 Mercury -116686-04-15 08:39 J -40898034.20 -40898034.14 -40898034.09 0.2768 0.2334
 Mercury -116680-04-24 05:31 J -40895833.37 -40895833.27 -40895833.17 0.2778 0.1002

Mercury -116677-10-18 13:41 J -40894560.07 -40894559.93 -40894559.78 0.2564 0.1100

Mercury -116673-04-17 03:07 J -40893283.47 -40893283.37 -40893283.28 0.2771 0.1464

Mercury -116667-04-26 23:46 J -40891082.59 -40891082.51 -40891082.43 0.2780 0.1873

Mercury -116664-10-21 20:10 J -40889808.66 -40889808.66 -40889808.65 0.2562 0.2558

Mercury -116660-04-19 21:36 J -40888532.71 -40888532.60 -40888532.50 0.2774 0.0597

Mercury -116657-10-13 07:41 J -40887260.31 -40887260.18 -40887260.06 0.2569 0.1542

Mercury -116654-04-29 18:15 J -40886331.76 -40886331.74 -40886331.73 0.2782 0.2739

Mercury -116647-04-22 15:51 J -40883781.95 -40883781.84 -40883781.73 0.2776 0.0297

Mercury -116644-10-16 13:55 J -40882509.08 -40882508.92 -40882508.76 0.2566 0.0091

Mercury -116640-04-15 13:27 J -40881232.01 -40881231.94 -40881231.87 0.2769 0.2172

Mercury -116634-04-25 10:19 J -40879031.17 -40879031.07 -40879030.97 0.2778 0.1166

Mercury -116631-10-19 20:24 J -40877757.79 -40877757.65 -40877757.52 0.2564 0.1376

Venus -116629-01-13 09:22 J -40877307.26 -40877307.11 -40877306.96 0.2602 0.1108

Mercury -116627-04-18 07:55 J -40876481.27 -40876481.17 -40876481.07 0.2772 0.1295

Venus -116621-01-10 23:03 J -40874387.60 -40874387.54 -40874387.48 0.2599 0.2416

Mercury -116621-04-27 04:48 J -40874280.37 -40874280.30 -40874280.23 0.2780 0.2040

Mercury -116614-04-21 02:24 J -40871730.51 -40871730.40 -40871730.29 0.2774 0.0423

Mercury -116611-10-14 14:10 J -40870458.05 -40870457.91 -40870457.77 0.2569 0.1270

Mercury -116601-04-22 20:53 J -40866979.74 -40866979.63 -40866979.53 0.2776 0.0462

Mercury -116598-10-17 20:39 J -40865706.80 -40865706.64 -40865706.48 0.2566 0.0197

Mercury -116594-04-16 18:15 J -40864429.81 -40864429.74 -40864429.66 0.2769 0.2011

Mercury -116588-04-25 15:07 J -40862228.96 -40862228.87 -40862228.77 0.2778 0.1333

Mercury -116585-10-20 03:07 J -40860955.50 -40860955.37 -40860955.25 0.2564 0.1661

Mercury -116581-04-18 12:43 J -40859679.06 -40859678.97 -40859678.87 0.2772 0.1138

Mercury -116578-10-12 14:39 J -40858406.94 -40858406.89 -40858406.85 0.2571 0.2437

Mercury -116575-04-28 09:36 J -40857478.16 -40857478.10 -40857478.04 0.2780 0.2203

Mercury -116568-04-21 07:12 J -40854928.31 -40854928.20 -40854928.09 0.2774 0.0259

Mercury -116565-10-14 20:53 J -40853655.78 -40853655.63 -40853655.49 0.2568 0.0994

Mercury -116561-04-14 04:48 J -40852378.32 -40852378.30 -40852378.29 0.2767 0.2719

Mercury -116555-04-24 01:41 J -40850177.53 -40850177.43 -40850177.32 0.2777 0.0622

Mercury -116552-10-18 03:07 J -40848904.53 -40848904.37 -40848904.21 0.2566 0.0469
 Mercury -116548-04-16 23:17 J -40847627.61 -40847627.53 -40847627.45 0.2770 0.1846
 Mercury -116542-04-26 20:10 J -40845426.75 -40845426.66 -40845426.57 0.2779 0.1498
 Mercury -116539-10-21 09:36 J -40844153.20 -40844153.10 -40844152.99 0.2564 0.1935
 Mercury -116535-04-19 17:46 J -40842876.86 -40842876.76 -40842876.66 0.2772 0.0971
 Mercury -116532-10-12 21:07 J -40841604.70 -40841604.62 -40841604.54 0.2571 0.2164
 Mercury -116529-04-28 14:24 J -40840675.95 -40840675.90 -40840675.84 0.2781 0.2371
 Mercury -116522-04-22 12:15 J -40838126.10 -40838125.99 -40838125.88 0.2775 0.0126
 Mercury -116519-10-16 03:22 J -40836853.51 -40836853.36 -40836853.20 0.2568 0.0713
 Mercury -116515-04-15 09:36 J -40835576.14 -40835576.10 -40835576.06 0.2767 0.2555
 Mercury -116509-04-24 06:29 J -40833375.33 -40833375.23 -40833375.12 0.2777 0.0795
 Mercury -116506-10-19 09:51 J -40832102.24 -40832102.09 -40832101.94 0.2565 0.0753
 Mercury -116502-04-18 04:05 J -40830825.41 -40830825.33 -40830825.24 0.2770 0.1681
 Mercury -116496-04-27 00:58 J -40828624.55 -40828624.46 -40828624.37 0.2779 0.1664
 Mercury -116493-10-21 16:19 J -40827350.90 -40827350.82 -40827350.74 0.2563 0.2218
 Mercury -116489-04-19 22:34 J -40826074.66 -40826074.56 -40826074.45 0.2773 0.0803
 Mercury -116486-10-14 03:51 J -40824802.45 -40824802.34 -40824802.23 0.2570 0.1887
 Mercury -116483-04-29 19:27 J -40823873.74 -40823873.69 -40823873.65 0.2781 0.2538
 Mercury -116476-04-22 17:03 J -40821323.90 -40821323.79 -40821323.68 0.2775 0.0078
 Mercury -116473-10-16 10:05 J -40820051.24 -40820051.08 -40820050.92 0.2568 0.0432
 Mercury -116469-04-15 14:39 J -40818773.95 -40818773.89 -40818773.84 0.2767 0.2394
 Mercury -116463-04-25 11:31 J -40816573.12 -40816573.02 -40816572.92 0.2777 0.0956
 Venus -116460-07-05 16:48 J -40815405.96 -40815405.80 -40815405.65 0.2742 0.0176
 Mercury -116460-10-19 16:19 J -40815299.96 -40815299.82 -40815299.67 0.2565 0.1035
 Mercury -116456-04-18 09:07 J -40814023.21 -40814023.12 -40814023.03 0.2770 0.1515
 Mercury -116450-04-28 05:46 J -40811822.34 -40811822.26 -40811822.18 0.2779 0.1833
 Mercury -116447-10-22 23:03 J -40810548.57 -40810548.54 -40810548.51 0.2563 0.2503
 Mercury -116443-04-21 03:36 J -40809272.46 -40809272.35 -40809272.25 0.2773 0.0645
 Mercury -116440-10-14 10:19 J -40808000.19 -40808000.07 -40807999.95 0.2570 0.1613
 Mercury -116437-04-30 00:15 J -40807071.51 -40807071.49 -40807071.47 0.2781 0.2703

Mercury -116430-04-23 21:51 J -40804521.69 -40804521.59 -40804521.48 0.2775 0.0257
 Mercury -116427-10-17 16:48 J -40803248.96 -40803248.80 -40803248.64 0.2567 0.0159
 Mercury -116423-04-16 19:27 J -40801971.75 -40801971.69 -40801971.63 0.2768 0.2227
 Mercury -116417-04-25 16:19 J -40799770.92 -40799770.82 -40799770.72 0.2778 0.1120
 Mercury -116414-10-20 23:03 J -40798497.67 -40798497.54 -40798497.40 0.2565 0.1319
 Mercury -116410-04-19 13:55 J -40797221.01 -40797220.92 -40797220.82 0.2771 0.1350
 Mercury -116404-04-28 10:48 J -40795020.13 -40795020.05 -40795019.98 0.2779 0.1997
 Mercury -116397-04-21 08:24 J -40792470.26 -40792470.15 -40792470.04 0.2773 0.0468
 Mercury -116394-10-15 17:03 J -40791197.93 -40791197.79 -40791197.66 0.2569 0.1336
 Venus -116386-01-13 09:36 J -40788551.24 -40788551.10 -40788550.95 0.2599 0.1280
 Mercury -116384-04-24 02:53 J -40787719.49 -40787719.38 -40787719.28 0.2776 0.0416
 Mercury -116381-10-17 23:17 J -40786446.69 -40786446.53 -40786446.37 0.2567 0.0129
 Venus -116378-01-10 23:46 J -40785631.60 -40785631.51 -40785631.42 0.2596 0.2193
 Mercury -116377-04-17 00:15 J -40785169.56 -40785169.49 -40785169.41 0.2768 0.2067
 Mercury -116371-04-26 21:07 J -40782968.71 -40782968.62 -40782968.52 0.2778 0.1290
 Mercury -116368-10-21 05:46 J -40781695.39 -40781695.26 -40781695.14 0.2565 0.1594
 Mercury -116364-04-19 18:43 J -40780418.81 -40780418.72 -40780418.62 0.2771 0.1187
 Mercury -116361-10-12 17:17 J -40779146.81 -40779146.78 -40779146.75 0.2572 0.2515
 Mercury -116358-04-29 15:36 J -40778217.92 -40778217.85 -40778217.78 0.2780 0.2164
 Mercury -116351-04-22 13:12 J -40775668.05 -40775667.95 -40775667.84 0.2774 0.0314
 Mercury -116348-10-15 23:31 J -40774395.66 -40774395.52 -40774395.37 0.2569 0.1058
 Mercury -116338-04-25 07:41 J -40770917.28 -40770917.18 -40770917.07 0.2776 0.0579
 Mercury -116335-10-19 06:00 J -40769644.41 -40769644.25 -40769644.09 0.2566 0.0410
 Mercury -116331-04-18 05:17 J -40768367.36 -40768367.28 -40768367.20 0.2769 0.1899
 Mercury -116325-04-27 02:10 J -40766166.50 -40766166.41 -40766166.32 0.2778 0.1459
 Mercury -116322-10-22 12:29 J -40764893.09 -40764892.98 -40764892.88 0.2564 0.1881
 Mercury -116318-04-20 23:46 J -40763616.61 -40763616.51 -40763616.41 0.2771 0.1019
 Mercury -116315-10-14 00:00 J -40762344.58 -40762344.50 -40762344.42 0.2571 0.2237
 Mercury -116312-04-29 20:24 J -40761415.70 -40761415.65 -40761415.59 0.2780 0.2334
 Mercury -116305-04-22 18:15 J -40758865.85 -40758865.74 -40758865.64 0.2774 0.0163

Mercury -116302-10-17 06:15 J -40757593.39 -40757593.24 -40757593.09 0.2569 0.0781
 Mercury -116298-04-16 15:36 J -40756315.88 -40756315.85 -40756315.82 0.2766 0.2616
 Mercury -116292-04-25 12:29 J -40754115.08 -40754114.98 -40754114.87 0.2776 0.0748
 Mercury -116289-10-19 12:29 J -40752842.13 -40752841.98 -40752841.82 0.2566 0.0690
 Mercury -116285-04-18 10:05 J -40751565.16 -40751565.08 -40751564.99 0.2769 0.1735
 Mercury -116279-04-28 06:58 J -40749364.30 -40749364.21 -40749364.12 0.2778 0.1624
 Mercury -116276-10-22 18:58 J -40748090.79 -40748090.71 -40748090.62 0.2564 0.2165
 Mercury -116272-04-21 04:34 J -40746814.41 -40746814.31 -40746814.20 0.2772 0.0852
 Mercury -116269-10-14 06:29 J -40745542.33 -40745542.23 -40745542.13 0.2571 0.1963
 Mercury -116266-05-01 01:27 J -40744613.49 -40744613.44 -40744613.40 0.2780 0.2501
 Mercury -116259-04-23 23:03 J -40742063.65 -40742063.54 -40742063.43 0.2774 0.0030
 Mercury -116256-10-17 12:43 J -40740791.12 -40740790.97 -40740790.81 0.2568 0.0506
 Mercury -116252-04-16 20:24 J -40739513.69 -40739513.65 -40739513.60 0.2766 0.2452
 Mercury -116246-04-26 17:31 J -40737312.87 -40737312.77 -40737312.67 0.2777 0.0915
 Mercury -116243-10-20 19:12 J -40736039.85 -40736039.70 -40736039.55 0.2566 0.0971
 Mercury -116239-04-19 15:07 J -40734762.96 -40734762.87 -40734762.78 0.2769 0.1571
 Mercury -116233-04-28 11:46 J -40732562.09 -40732562.01 -40732561.92 0.2778 0.1790
 Mercury -116230-10-24 01:41 J -40731288.48 -40731288.43 -40731288.39 0.2563 0.2446
 Mercury -116226-04-22 09:36 J -40730012.21 -40730012.10 -40730012.00 0.2772 0.0696
 Mercury -116223-10-15 13:12 J -40728740.07 -40728739.95 -40728739.83 0.2571 0.1684
 Mercury -116220-05-01 06:15 J -40727811.27 -40727811.24 -40727811.21 0.2780 0.2666
 Venus -116217-07-05 18:43 J -40726649.87 -40726649.72 -40726649.56 0.2745 0.0181
 Mercury -116213-04-24 03:51 J -40725261.45 -40725261.34 -40725261.23 0.2774 0.0213
 Mercury -116210-10-18 19:27 J -40723988.85 -40723988.69 -40723988.53 0.2568 0.0223
 Mercury -116206-04-18 01:27 J -40722711.50 -40722711.44 -40722711.38 0.2767 0.2284
 Mercury -116200-04-26 22:19 J -40720510.67 -40720510.57 -40720510.47 0.2777 0.1078
 Mercury -116197-10-21 01:41 J -40719237.57 -40719237.43 -40719237.29 0.2566 0.1250
 Mercury -116193-04-19 19:55 J -40717960.76 -40717960.67 -40717960.58 0.2770 0.1402
 Mercury -116187-04-29 16:48 J -40715759.88 -40715759.80 -40715759.73 0.2779 0.1960
 Mercury -116180-04-22 14:24 J -40713210.01 -40713209.90 -40713209.79 0.2772 0.0519

Mercury -116177-10-15 19:41 J -40711937.81 -40711937.68 -40711937.54 0.2570 0.1406

Mercury -116167-04-25 08:53 J -40708459.24 -40708459.13 -40708459.03 0.2775 0.0371

Mercury -116164-10-19 02:10 J -40707186.57 -40707186.41 -40707186.25 0.2568 0.0077

Mercury -116160-04-18 06:15 J -40705909.30 -40705909.24 -40705909.17 0.2767 0.2120

Mercury -116154-04-28 03:07 J -40703708.46 -40703708.37 -40703708.27 0.2777 0.1249

Mercury -116151-10-22 08:24 J -40702435.28 -40702435.15 -40702435.02 0.2565 0.1536

Mercury -116147-04-21 00:43 J -40701158.56 -40701158.47 -40701158.37 0.2770 0.1239

Venus -116143-01-13 10:19 J -40699795.21 -40699795.07 -40699794.94 0.2597 0.1463

Mercury -116141-04-29 21:36 J -40698957.67 -40698957.60 -40698957.53 0.2779 0.2126

Venus -116135-01-11 00:15 J -40696875.59 -40696875.49 -40696875.39 0.2593 0.2013

Mercury -116134-04-23 19:12 J -40696407.81 -40696407.70 -40696407.59 0.2773 0.0356

Mercury -116131-10-17 02:24 J -40695135.54 -40695135.40 -40695135.26 0.2570 0.1126

Mercury -116121-04-25 13:41 J -40691657.04 -40691656.93 -40691656.82 0.2775 0.0532

Mercury -116118-10-20 08:39 J -40690384.30 -40690384.14 -40690383.98 0.2567 0.0344

Mercury -116114-04-19 11:17 J -40689107.11 -40689107.03 -40689106.96 0.2768 0.1954

Mercury -116108-04-28 08:10 J -40686906.26 -40686906.16 -40686906.07 0.2777 0.1415

Mercury -116105-10-22 15:07 J -40685632.98 -40685632.87 -40685632.76 0.2565 0.1823

Mercury -116101-04-21 05:46 J -40684356.36 -40684356.26 -40684356.16 0.2770 0.1067

Mercury -116098-10-15 02:39 J -40683084.45 -40683084.39 -40683084.32 0.2572 0.2311

Mercury -116095-05-01 02:24 J -40682155.46 -40682155.40 -40682155.34 0.2779 0.2295

Mercury -116088-04-24 00:15 J -40679605.60 -40679605.49 -40679605.38 0.2773 0.0202

Mercury -116085-10-17 08:53 J -40678333.28 -40678333.13 -40678332.98 0.2570 0.0849

Mercury -116081-04-16 21:36 J -40677055.62 -40677055.60 -40677055.58 0.2765 0.2670

Mercury -116075-04-26 18:29 J -40674854.83 -40674854.73 -40674854.62 0.2775 0.0710

Mercury -116072-10-20 15:22 J -40673582.02 -40673581.86 -40673581.70 0.2567 0.0629

Mercury -116068-04-19 16:05 J -40672304.91 -40672304.83 -40672304.75 0.2768 0.1785

Mercury -116062-04-29 12:58 J -40670104.05 -40670103.96 -40670103.87 0.2778 0.1583

Mercury -116059-10-23 21:51 J -40668830.68 -40668830.59 -40668830.50 0.2565 0.2110

Mercury -116055-04-22 10:34 J -40667554.16 -40667554.06 -40667553.95 0.2771 0.0903

Mercury -116052-10-15 09:22 J -40666282.20 -40666282.11 -40666282.01 0.2572 0.2030

Mercury -116049-05-01 07:27 J -40665353.24 -40665353.19 -40665353.15 0.2780 0.2463

Mercury -116042-04-25 05:03 J -40662803.40 -40662803.29 -40662803.18 0.2773 0.0013

Mercury -116039-10-18 15:36 J -40661531.01 -40661530.85 -40661530.69 0.2569 0.0568

Mercury -116035-04-18 02:24 J -40660253.44 -40660253.40 -40660253.35 0.2765 0.2508

Mercury -116029-04-26 23:31 J -40658052.63 -40658052.52 -40658052.42 0.2776 0.0872

Mercury -116026-10-21 21:51 J -40656779.74 -40656779.59 -40656779.44 0.2567 0.0912

Mercury -116022-04-20 21:07 J -40655502.71 -40655502.62 -40655502.54 0.2768 0.1623

Mercury -116016-04-29 17:46 J -40653301.84 -40653301.76 -40653301.67 0.2778 0.1755

Mercury -116013-10-24 04:19 J -40652028.37 -40652028.32 -40652028.26 0.2564 0.2393

Mercury -116009-04-22 15:36 J -40650751.96 -40650751.85 -40650751.75 0.2771 0.0741

Mercury -116006-10-16 15:51 J -40649479.95 -40649479.84 -40649479.72 0.2572 0.1757

Mercury -116003-05-02 12:15 J -40648551.02 -40648550.99 -40648550.96 0.2780 0.2632

116TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 116th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-115996-04-25 09:51 J	-40646001.19	-40646001.09	-40646000.98	0.2774	0.0182		
Mercury	-115993-10-18 22:19 J	-40644728.73	-40644728.57	-40644728.41	0.2569	0.0287		
Mercury	-115989-04-18 07:27 J	-40643451.25	-40643451.19	-40643451.14	0.2766	0.2340		
Mercury	-115983-04-28 04:19 J	-40641250.42	-40641250.32	-40641250.22	0.2776	0.1039		
Mercury	-115980-10-22 04:34 J	-40639977.45	-40639977.31	-40639977.17	0.2566	0.1196		

Mercury -115976-04-21 01:55 J -40638700.51 -40638700.42 -40638700.33 0.2769 0.1453
 Venus -115974-07-06 20:24 J -40637893.81 -40637893.65 -40637893.50 0.2748 0.0110
 Mercury -115970-04-30 22:48 J -40636499.63 -40636499.55 -40636499.48 0.2778 0.1922
 Mercury -115963-04-23 20:24 J -40633949.76 -40633949.65 -40633949.54 0.2771 0.0566
 Mercury -115960-10-16 22:34 J -40632677.69 -40632677.56 -40632677.43 0.2571 0.1476
 Mercury -115950-04-26 14:53 J -40629198.99 -40629198.88 -40629198.78 0.2774 0.0334
 Mercury -115947-10-20 04:48 J -40627926.46 -40627926.30 -40627926.14 0.2568 0.0020
 Mercury -115943-04-19 12:15 J -40626649.05 -40626648.99 -40626648.92 0.2766 0.2175
 Mercury -115937-04-28 09:07 J -40624448.21 -40624448.12 -40624448.02 0.2776 0.1210
 Mercury -115934-10-23 11:17 J -40623175.16 -40623175.03 -40623174.90 0.2566 0.1481
 Mercury -115930-04-22 06:43 J -40621898.31 -40621898.22 -40621898.12 0.2769 0.1288
 Mercury -115924-05-01 03:36 J -40619697.42 -40619697.35 -40619697.28 0.2778 0.2089
 Mercury -115917-04-24 01:12 J -40617147.56 -40617147.45 -40617147.34 0.2772 0.0401
 Mercury -115914-10-18 05:03 J -40615875.43 -40615875.29 -40615875.15 0.2571 0.1198
 Mercury -115904-04-26 19:41 J -40612396.79 -40612396.68 -40612396.57 0.2774 0.0490
 Mercury -115901-10-20 11:31 J -40611124.18 -40611124.02 -40611123.86 0.2568 0.0286
 Venus -115900-01-13 10:48 J -40611039.17 -40611039.05 -40611038.92 0.2594 0.1665
 Mercury -115897-04-19 17:17 J -40609846.86 -40609846.78 -40609846.71 0.2767 0.2004
 Venus -115892-01-11 01:12 J -40608119.57 -40608119.45 -40608119.34 0.2590 0.1787
 Mercury -115891-04-29 14:10 J -40607646.01 -40607645.91 -40607645.82 0.2777 0.1378
 Mercury -115888-10-23 17:46 J -40606372.87 -40606372.76 -40606372.64 0.2566 0.1766
 Mercury -115884-04-22 11:46 J -40605096.11 -40605096.01 -40605095.91 0.2770 0.1119
 Mercury -115881-10-15 05:31 J -40603824.32 -40603824.27 -40603824.21 0.2573 0.2376
 Mercury -115878-05-02 08:24 J -40602895.21 -40602895.15 -40602895.09 0.2779 0.2257
 Mercury -115871-04-25 06:15 J -40600345.35 -40600345.24 -40600345.14 0.2772 0.0250
 Mercury -115868-10-18 11:46 J -40599073.16 -40599073.01 -40599072.86 0.2570 0.0915
 Mercury -115864-04-18 03:36 J -40597795.36 -40597795.35 -40597795.34 0.2764 0.2725
 Mercury -115858-04-28 00:29 J -40595594.58 -40595594.48 -40595594.37 0.2774 0.0664
 Mercury -115855-10-21 18:00 J -40594321.91 -40594321.75 -40594321.59 0.2568 0.0565
 Mercury -115851-04-20 22:05 J -40593044.66 -40593044.58 -40593044.50 0.2767 0.1838

Mercury -115845-04-29 18:58 J -40590843.80 -40590843.71 -40590843.62 0.2777 0.1542

Mercury -115842-10-25 00:29 J -40589570.58 -40589570.48 -40589570.39 0.2565 0.2050

Mercury -115838-04-23 16:34 J -40588293.91 -40588293.81 -40588293.71 0.2770 0.0947

Mercury -115835-10-16 12:15 J -40587022.08 -40587021.99 -40587021.90 0.2573 0.2103

Mercury -115832-05-02 13:27 J -40586092.99 -40586092.94 -40586092.89 0.2779 0.2431

Mercury -115825-04-25 11:03 J -40583543.15 -40583543.04 -40583542.93 0.2772 0.0060

Mercury -115822-10-19 18:29 J -40582270.89 -40582270.73 -40582270.58 0.2570 0.0627

Mercury -115818-04-19 08:24 J -40580993.18 -40580993.15 -40580993.11 0.2764 0.2562

Mercury -115812-04-28 05:31 J -40578792.38 -40578792.27 -40578792.17 0.2775 0.0830

Mercury -115809-10-22 00:43 J -40577519.62 -40577519.47 -40577519.32 0.2567 0.0854

Mercury -115805-04-21 03:07 J -40576242.46 -40576242.37 -40576242.29 0.2767 0.1672

Mercury -115799-04-30 23:46 J -40574041.59 -40574041.51 -40574041.42 0.2777 0.1715

Mercury -115796-10-25 07:12 J -40572768.27 -40572768.20 -40572768.14 0.2565 0.2341

Mercury -115792-04-23 21:36 J -40571491.71 -40571491.60 -40571491.50 0.2770 0.0786

Mercury -115789-10-16 18:43 J -40570219.83 -40570219.72 -40570219.60 0.2573 0.1819

Mercury -115786-05-03 18:15 J -40569290.78 -40569290.74 -40569290.71 0.2779 0.2595

Mercury -115779-04-26 15:51 J -40566740.95 -40566740.84 -40566740.73 0.2773 0.0140

Mercury -115776-10-20 00:58 J -40565468.62 -40565468.46 -40565468.30 0.2570 0.0347

Mercury -115772-04-19 13:27 J -40564190.99 -40564190.94 -40564190.89 0.2765 0.2391

Mercury -115766-04-29 10:19 J -40561990.17 -40561990.07 -40561989.97 0.2775 0.0998

Mercury -115763-10-23 07:27 J -40560717.34 -40560717.19 -40560717.05 0.2567 0.1142

Mercury -115759-04-22 07:55 J -40559440.26 -40559440.17 -40559440.08 0.2768 0.1501

Mercury -115753-05-01 04:48 J -40557239.38 -40557239.30 -40557239.22 0.2778 0.1885

Mercury -115746-04-25 02:24 J -40554689.51 -40554689.40 -40554689.29 0.2770 0.0610

Mercury -115743-10-18 01:12 J -40553417.57 -40553417.45 -40553417.32 0.2572 0.1544

Mercury -115740-05-03 23:03 J -40552488.54 -40552488.54 -40552488.53 0.2780 0.2767

Mercury -115733-04-26 20:53 J -40549938.74 -40549938.63 -40549938.52 0.2773 0.0286

Venus -115731-07-06 22:05 J -40549137.73 -40549137.58 -40549137.42 0.2751 0.0078

Mercury -115730-10-21 07:41 J -40548666.34 -40548666.18 -40548666.02 0.2569 0.0080

Mercury -115726-04-20 18:15 J -40547388.80 -40547388.74 -40547388.67 0.2765 0.2224

Mercury -115720-04-29 15:07 J -40545187.96 -40545187.87 -40545187.77 0.2776 0.1172

Mercury -115717-10-23 13:55 J -40543915.05 -40543914.92 -40543914.78 0.2567 0.1428

Mercury -115713-04-22 12:43 J -40542638.06 -40542637.97 -40542637.87 0.2768 0.1334

Mercury -115707-05-02 09:36 J -40540437.17 -40540437.10 -40540437.03 0.2778 0.2053

Mercury -115700-04-25 07:12 J -40537887.30 -40537887.20 -40537887.09 0.2771 0.0447

Mercury -115697-10-18 07:55 J -40536615.31 -40536615.17 -40536615.03 0.2572 0.1260

Mercury -115687-04-28 01:41 J -40533136.54 -40533136.43 -40533136.32 0.2773 0.0449

Mercury -115684-10-21 14:10 J -40531864.07 -40531863.91 -40531863.75 0.2569 0.0220

Mercury -115680-04-20 23:17 J -40530586.61 -40530586.53 -40530586.46 0.2765 0.2060

Mercury -115674-04-30 20:10 J -40528385.76 -40528385.66 -40528385.57 0.2776 0.1338

Mercury -115671-10-24 20:24 J -40527112.76 -40527112.65 -40527112.53 0.2566 0.1713

Mercury -115667-04-23 17:46 J -40525835.86 -40525835.76 -40525835.66 0.2768 0.1168

Mercury -115664-10-16 08:24 J -40524564.20 -40524564.15 -40524564.11 0.2574 0.2453

Mercury -115661-05-02 14:24 J -40523634.96 -40523634.90 -40523634.83 0.2778 0.2227

Venus -115657-01-14 11:31 J -40522283.13 -40522283.02 -40522282.90 0.2591 0.1856

Mercury -115654-04-26 12:15 J -40521085.10 -40521084.99 -40521084.89 0.2771 0.0285

Mercury -115651-10-19 14:39 J -40519813.04 -40519812.89 -40519812.75 0.2571 0.0979

Venus -115649-01-12 02:10 J -40519363.54 -40519363.41 -40519363.28 0.2588 0.1562

Mercury -115641-04-28 06:29 J -40516334.33 -40516334.23 -40516334.12 0.2774 0.0625

Mercury -115638-10-22 20:53 J -40515061.79 -40515061.63 -40515061.47 0.2569 0.0510

Mercury -115634-04-22 04:05 J -40513784.41 -40513784.33 -40513784.25 0.2766 0.1889

Mercury -115628-05-01 00:58 J -40511583.55 -40511583.46 -40511583.37 0.2776 0.1508

Mercury -115625-10-25 03:07 J -40510310.47 -40510310.37 -40510310.27 0.2566 0.1998

Mercury -115621-04-23 22:34 J -40509033.66 -40509033.56 -40509033.46 0.2769 0.0997

Mercury -115618-10-17 14:53 J -40507761.96 -40507761.88 -40507761.79 0.2574 0.2167

Mercury -115615-05-03 19:27 J -40506832.75 -40506832.69 -40506832.64 0.2778 0.2395

Mercury -115608-04-26 17:03 J -40504282.90 -40504282.79 -40504282.68 0.2771 0.0107

Mercury -115605-10-19 21:07 J -40503010.77 -40503010.62 -40503010.47 0.2571 0.0695

Mercury -115601-04-19 14:24 J -40501732.93 -40501732.90 -40501732.86 0.2763 0.2612

Mercury -115595-04-29 11:31 J -40499532.13 -40499532.02 -40499531.92 0.2774 0.0794

Mercury -115592-10-23 03:22 J -40498259.51 -40498259.36 -40498259.21 0.2568 0.0792
 Mercury -115588-04-22 08:53 J -40496982.21 -40496982.13 -40496982.04 0.2766 0.1723
 Mercury -115582-05-02 05:46 J -40494781.34 -40494781.26 -40494781.17 0.2776 0.1681
 Mercury -115579-10-26 09:51 J -40493508.16 -40493508.09 -40493508.02 0.2566 0.2288
 Mercury -115575-04-25 03:22 J -40492231.46 -40492231.36 -40492231.25 0.2769 0.0834
 Mercury -115572-10-17 21:36 J -40490959.71 -40490959.60 -40490959.50 0.2574 0.1890
 Mercury -115569-05-04 00:15 J -40490030.53 -40490030.49 -40490030.45 0.2779 0.2566
 Mercury -115562-04-27 21:51 J -40487480.70 -40487480.59 -40487480.48 0.2772 0.0093
 Mercury -115559-10-21 03:51 J -40486208.50 -40486208.34 -40486208.19 0.2571 0.0413
 Mercury -115555-04-20 19:27 J -40484930.74 -40484930.69 -40484930.64 0.2764 0.2444
 Mercury -115549-04-29 16:19 J -40482729.92 -40482729.82 -40482729.72 0.2774 0.0958
 Mercury -115546-10-24 10:05 J -40481457.23 -40481457.08 -40481456.94 0.2568 0.1082
 Mercury -115542-04-23 13:55 J -40480180.01 -40480179.92 -40480179.83 0.2767 0.1547
 Mercury -115536-05-02 10:48 J -40477979.13 -40477979.05 -40477978.97 0.2777 0.1851
 Mercury -115529-04-25 08:24 J -40475429.26 -40475429.15 -40475429.05 0.2770 0.0656
 Mercury -115526-10-19 04:19 J -40474157.45 -40474157.32 -40474157.20 0.2573 0.1602
 Mercury -115523-05-05 05:03 J -40473228.30 -40473228.29 -40473228.27 0.2779 0.2736
 Mercury -115516-04-28 02:53 J -40470678.49 -40470678.38 -40470678.28 0.2772 0.0255
 Mercury -115513-10-21 10:19 J -40469406.23 -40469406.07 -40469405.91 0.2570 0.0128
 Mercury -115509-04-21 00:15 J -40468128.55 -40468128.49 -40468128.43 0.2764 0.2275
 Mercury -115503-04-30 21:07 J -40465927.72 -40465927.62 -40465927.52 0.2775 0.1130
 Mercury -115500-10-24 16:34 J -40464654.94 -40464654.81 -40464654.67 0.2568 0.1368
 Mercury -115496-04-23 18:43 J -40463377.81 -40463377.72 -40463377.62 0.2767 0.1383
 Mercury -115490-05-03 15:36 J -40461176.92 -40461176.85 -40461176.78 0.2777 0.2018
 Venus -115488-07-06 23:17 J -40460381.68 -40460381.53 -40460381.37 0.2754 0.0091
 Mercury -115483-04-26 13:12 J -40458627.05 -40458626.95 -40458626.84 0.2770 0.0487
 Mercury -115480-10-19 10:48 J -40457355.19 -40457355.05 -40457354.92 0.2573 0.1322
 Mercury -115470-04-29 07:41 J -40453876.29 -40453876.18 -40453876.07 0.2773 0.0409
 Mercury -115467-10-22 17:03 J -40452603.95 -40452603.79 -40452603.63 0.2570 0.0169
 Mercury -115463-04-22 05:17 J -40451326.35 -40451326.28 -40451326.21 0.2764 0.2108

Mercury -115457-05-01 02:10 J -40449125.51 -40449125.41 -40449125.32 0.2775 0.1303

Mercury -115454-10-25 23:17 J -40447852.65 -40447852.53 -40447852.41 0.2567 0.1658

Mercury -115450-04-24 23:46 J -40446575.61 -40446575.51 -40446575.41 0.2767 0.1212

Mercury -115447-10-17 11:17 J -40445304.06 -40445304.03 -40445304.00 0.2575 0.2512

Mercury -115444-05-03 20:24 J -40444374.71 -40444374.65 -40444374.58 0.2777 0.2192

Mercury -115437-04-26 18:15 J -40441824.85 -40441824.74 -40441824.64 0.2770 0.0332

Mercury -115434-10-20 17:17 J -40440552.92 -40440552.78 -40440552.63 0.2572 0.1038

Mercury -115424-04-29 12:29 J -40437074.08 -40437073.98 -40437073.87 0.2773 0.0585

Mercury -115421-10-22 23:31 J -40435801.68 -40435801.52 -40435801.36 0.2569 0.0448

Mercury -115417-04-22 10:05 J -40434524.16 -40434524.08 -40434524.00 0.2765 0.1935

Venus -115414-01-14 12:43 J -40433527.06 -40433526.97 -40433526.87 0.2589 0.2100

Mercury -115411-05-02 06:58 J -40432323.30 -40432323.21 -40432323.12 0.2775 0.1473

Mercury -115408-10-26 06:00 J -40431050.36 -40431050.25 -40431050.15 0.2567 0.1951

Venus -115406-01-12 03:07 J -40430607.51 -40430607.37 -40430607.23 0.2585 0.1324

Mercury -115404-04-25 04:34 J -40429773.41 -40429773.31 -40429773.21 0.2768 0.1040

Mercury -115401-10-17 17:46 J -40428501.84 -40428501.76 -40428501.68 0.2575 0.2237

Mercury -115398-05-05 01:27 J -40427572.50 -40427572.44 -40427572.39 0.2778 0.2364

Mercury -115391-04-27 23:03 J -40425022.65 -40425022.54 -40425022.43 0.2770 0.0147

Mercury -115388-10-21 00:00 J -40423750.66 -40423750.50 -40423750.35 0.2572 0.0760

Mercury -115384-04-20 20:24 J -40422472.67 -40422472.65 -40422472.62 0.2762 0.2666

Mercury -115378-04-30 17:31 J -40420271.88 -40420271.77 -40420271.67 0.2773 0.0752

Mercury -115375-10-24 06:15 J -40418999.40 -40418999.24 -40418999.09 0.2569 0.0740

Mercury -115371-04-23 14:53 J -40417721.96 -40417721.88 -40417721.79 0.2765 0.1770

Mercury -115365-05-02 11:46 J -40415521.09 -40415521.01 -40415520.92 0.2776 0.1647

Mercury -115362-10-27 12:29 J -40414248.05 -40414247.98 -40414247.90 0.2567 0.2239

Mercury -115358-04-26 09:22 J -40412971.21 -40412971.11 -40412971.00 0.2768 0.0877

Mercury -115355-10-19 00:29 J -40411699.59 -40411699.48 -40411699.38 0.2575 0.1948

Mercury -115352-05-05 06:15 J -40410770.28 -40410770.24 -40410770.20 0.2778 0.2535

Mercury -115345-04-28 03:51 J -40408220.45 -40408220.34 -40408220.23 0.2771 0.0076

Mercury -115342-10-22 06:29 J -40406948.39 -40406948.23 -40406948.07 0.2571 0.0473

Mercury -115338-04-22 01:27 J -40405670.49 -40405670.44 -40405670.40 0.2763 0.2495

Mercury -115332-04-30 22:19 J -40403469.67 -40403469.57 -40403469.47 0.2773 0.0923

Mercury -115329-10-24 12:43 J -40402197.12 -40402196.97 -40402196.82 0.2569 0.1023

Mercury -115325-04-23 19:55 J -40400919.76 -40400919.67 -40400919.58 0.2766 0.1600

Mercury -115319-05-03 16:48 J -40398718.88 -40398718.80 -40398718.72 0.2776 0.1815

Mercury -115316-10-27 19:12 J -40397445.73 -40397445.70 -40397445.68 0.2566 0.2529

Mercury -115312-04-26 14:24 J -40396169.01 -40396168.90 -40396168.80 0.2768 0.0702

Mercury -115309-10-19 06:58 J -40394897.33 -40394897.21 -40394897.09 0.2574 0.1672

Mercury -115306-05-06 11:03 J -40393968.06 -40393968.04 -40393968.02 0.2778 0.2709

Mercury -115299-04-29 08:53 J -40391418.24 -40391418.13 -40391418.02 0.2771 0.0212

Mercury -115296-10-22 13:12 J -40390146.11 -40390145.95 -40390145.79 0.2571 0.0188

Mercury -115292-04-22 06:15 J -40388868.29 -40388868.24 -40388868.18 0.2763 0.2325

Mercury -115286-05-02 03:07 J -40386667.47 -40386667.37 -40386667.27 0.2774 0.1099

Mercury -115283-10-25 19:27 J -40385394.83 -40385394.69 -40385394.55 0.2568 0.1316

Mercury -115279-04-25 00:43 J -40384117.56 -40384117.47 -40384117.37 0.2766 0.1428

Mercury -115273-05-03 21:36 J -40381916.67 -40381916.60 -40381916.53 0.2776 0.1989

Mercury -115266-04-27 19:12 J -40379366.81 -40379366.70 -40379366.59 0.2769 0.0531

Mercury -115263-10-20 13:41 J -40378095.07 -40378094.93 -40378094.80 0.2574 0.1384

Mercury -115253-04-29 13:41 J -40374616.04 -40374615.93 -40374615.82 0.2772 0.0368

Mercury -115250-10-23 19:41 J -40373343.84 -40373343.68 -40373343.52 0.2571 0.0103

Mercury -115246-04-23 11:17 J -40372066.10 -40372066.03 -40372065.97 0.2763 0.2154

Venus -115245-07-07 00:58 J -40371625.62 -40371625.46 -40371625.31 0.2757 0.0109

Mercury -115240-05-02 08:10 J -40369865.26 -40369865.16 -40369865.07 0.2774 0.1268

Mercury -115237-10-26 01:55 J -40368592.54 -40368592.42 -40368592.29 0.2568 0.1607

Mercury -115233-04-25 05:46 J -40367315.36 -40367315.26 -40367315.17 0.2766 0.1257

Mercury -115227-05-05 02:24 J -40365114.46 -40365114.40 -40365114.33 0.2777 0.2162

Mercury -115220-04-28 00:15 J -40362564.60 -40362564.49 -40362564.39 0.2769 0.0373

Mercury -115217-10-20 20:10 J -40361292.81 -40361292.66 -40361292.52 0.2573 0.1104

Mercury -115207-04-30 18:29 J -40357813.83 -40357813.73 -40357813.62 0.2772 0.0547

Mercury -115204-10-24 02:24 J -40356541.56 -40356541.40 -40356541.24 0.2571 0.0399

Mercury -115200-04-23 16:05 J -40355263.90 -40355263.83 -40355263.75 0.2764 0.1984

Mercury -115194-05-03 12:58 J -40353063.05 -40353062.96 -40353062.87 0.2774 0.1436

Mercury -115191-10-27 08:39 J -40351790.25 -40351790.14 -40351790.03 0.2568 0.1898

Mercury -115187-04-26 10:34 J -40350513.16 -40350513.06 -40350512.96 0.2767 0.1083

Mercury -115184-10-18 20:39 J -40349241.71 -40349241.64 -40349241.57 0.2576 0.2293

Mercury -115181-05-05 07:27 J -40348312.25 -40348312.19 -40348312.14 0.2777 0.2333

Mercury -115174-04-29 05:03 J -40345762.40 -40345762.29 -40345762.18 0.2770 0.0184

Venus -115171-01-14 13:41 J -40344771.00 -40344770.93 -40344770.86 0.2586 0.2316

Mercury -115171-10-22 02:39 J -40344490.54 -40344490.39 -40344490.24 0.2573 0.0815

Mercury -115167-04-22 02:24 J -40343212.41 -40343212.40 -40343212.38 0.2761 0.2713

Venus -115163-01-12 04:34 J -40341851.46 -40341851.31 -40341851.16 0.2583 0.1060

Mercury -115161-04-30 23:31 J -40341011.63 -40341011.52 -40341011.42 0.2772 0.0718

Mercury -115158-10-25 08:53 J -40339739.28 -40339739.13 -40339738.97 0.2570 0.0682

Mercury -115154-04-24 20:53 J -40338461.71 -40338461.63 -40338461.54 0.2764 0.1816

Mercury -115148-05-03 17:46 J -40336260.84 -40336260.76 -40336260.67 0.2775 0.1611

Mercury -115145-10-27 15:22 J -40334987.95 -40334987.86 -40334987.78 0.2568 0.2193

Mercury -115141-04-26 15:22 J -40333710.96 -40333710.86 -40333710.75 0.2767 0.0919

Mercury -115138-10-20 03:07 J -40332439.47 -40332439.37 -40332439.27 0.2576 0.2017

Mercury -115135-05-06 12:14 J -40331510.03 -40331509.99 -40331509.95 0.2777 0.2503

Mercury -115128-04-29 09:50 J -40328960.19 -40328960.09 -40328959.98 0.2770 0.0100

Mercury -115125-10-22 09:22 J -40327688.27 -40327688.11 -40327687.96 0.2573 0.0526

Mercury -115121-04-22 07:26 J -40326410.23 -40326410.19 -40326410.15 0.2761 0.2543

Mercury -115115-05-02 04:19 J -40324209.42 -40324209.32 -40324209.22 0.2773 0.0888

Mercury -115112-10-25 15:36 J -40322937.00 -40322936.85 -40322936.70 0.2570 0.0980

Mercury -115108-04-25 01:55 J -40321659.51 -40321659.42 -40321659.33 0.2764 0.1642

Mercury -115102-05-04 22:48 J -40319458.63 -40319458.55 -40319458.47 0.2775 0.1787

Mercury -115099-10-28 21:50 J -40318185.62 -40318185.59 -40318185.55 0.2567 0.2485

Mercury -115095-04-27 20:24 J -40316908.76 -40316908.65 -40316908.55 0.2767 0.0740

Mercury -115092-10-20 09:50 J -40315637.21 -40315637.09 -40315636.98 0.2575 0.1729

Mercury -115089-05-06 17:02 J -40314707.81 -40314707.79 -40314707.76 0.2778 0.2679

Mercury -115082-04-30 14:53 J -40312157.99 -40312157.88 -40312157.77 0.2770 0.0176

Mercury -115079-10-23 15:50 J -40310886.00 -40310885.84 -40310885.68 0.2572 0.0240

Mercury -115075-04-23 12:14 J -40309608.04 -40309607.99 -40309607.94 0.2762 0.2373

Mercury -115069-05-02 09:07 J -40307407.22 -40307407.12 -40307407.02 0.2773 0.1066

Mercury -115066-10-26 22:05 J -40306134.72 -40306134.58 -40306134.44 0.2569 0.1267

Mercury -115062-04-26 06:43 J -40304857.31 -40304857.22 -40304857.13 0.2765 0.1470

Mercury -115056-05-05 03:36 J -40302656.42 -40302656.35 -40302656.27 0.2776 0.1958

Mercury -115049-04-28 01:12 J -40300106.55 -40300106.45 -40300106.34 0.2768 0.0570

Mercury -115046-10-21 16:19 J -40298834.95 -40298834.82 -40298834.69 0.2575 0.1451

Mercury -115036-04-30 19:41 J -40295355.79 -40295355.68 -40295355.57 0.2771 0.0333

Mercury -115033-10-23 22:34 J -40294083.72 -40294083.56 -40294083.40 0.2572 0.0077

Mercury -115029-04-23 17:02 J -40292805.85 -40292805.79 -40292805.72 0.2762 0.2206

Mercury -115023-05-03 14:10 J -40290605.01 -40290604.91 -40290604.82 0.2773 0.1233

Mercury -115020-10-27 04:48 J -40289332.43 -40289332.30 -40289332.17 0.2569 0.1560

Mercury -115016-04-26 11:46 J -40288055.11 -40288055.01 -40288054.92 0.2765 0.1302

Mercury -115010-05-06 08:24 J -40285854.21 -40285854.15 -40285854.08 0.2776 0.2132

Mercury -115003-04-29 06:14 J -40283304.35 -40283304.24 -40283304.14 0.2768 0.0410

Venus -115002-07-08 01:55 J -40282869.57 -40282869.42 -40282869.27 0.2759 0.0227

115TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 115th millennium BCE.

PLANET	MAX- TRANSIT	C	START	MAX	END	SUNRAD	DEPTH	S
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TIME

Mercury -115000-10-21 22:48 J -40282032.69 -40282032.55 -40282032.40 0.2574 0.1161
Mercury -114990-05-02 00:29 J -40278553.58 -40278553.48 -40278553.37 0.2771 0.0515
Mercury -114987-10-25 05:02 J -40277281.45 -40277281.29 -40277281.13 0.2571 0.0336
Mercury -114983-04-24 22:05 J -40276003.65 -40276003.58 -40276003.51 0.2762 0.2029
Mercury -114977-05-03 18:58 J -40273802.80 -40273802.71 -40273802.62 0.2774 0.1406
Mercury -114974-10-28 11:17 J -40272530.14 -40272530.03 -40272529.92 0.2569 0.1850
Mercury -114970-04-27 16:34 J -40271252.91 -40271252.81 -40271252.71 0.2766 0.1129
Mercury -114967-10-19 23:31 J -40269981.58 -40269981.52 -40269981.46 0.2577 0.2361
Mercury -114964-05-06 13:26 J -40269052.00 -40269051.94 -40269051.88 0.2776 0.2303
Mercury -114957-04-29 11:02 J -40266502.15 -40266502.04 -40266501.93 0.2768 0.0225
Mercury -114954-10-23 05:31 J -40265230.42 -40265230.27 -40265230.12 0.2574 0.0874
Mercury -114944-05-02 05:31 J -40261751.38 -40261751.27 -40261751.17 0.2771 0.0681
Mercury -114941-10-25 11:46 J -40260479.17 -40260479.01 -40260478.86 0.2571 0.0636
Mercury -114937-04-25 02:53 J -40259201.46 -40259201.38 -40259201.30 0.2763 0.1860
Mercury -114931-05-04 23:46 J -40257000.59 -40257000.51 -40257000.42 0.2774 0.1583
Venus -114928-01-14 15:07 J -40256014.88 -40256014.87 -40256014.86 0.2584 0.2578
Mercury -114928-10-28 18:00 J -40255727.84 -40255727.75 -40255727.66 0.2568 0.2143
Mercury -114924-04-27 21:22 J -40254450.71 -40254450.61 -40254450.50 0.2766 0.0959
Mercury -114921-10-20 06:00 J -40253179.34 -40253179.25 -40253179.16 0.2577 0.2073
Venus -114920-01-12 05:46 J -40253095.41 -40253095.26 -40253095.10 0.2581 0.0809
Mercury -114918-05-07 18:14 J -40252249.78 -40252249.74 -40252249.69 0.2776 0.2479
Mercury -114911-04-30 15:50 J -40249699.95 -40249699.84 -40249699.73 0.2769 0.0084
Mercury -114908-10-23 12:00 J -40248428.15 -40248428.00 -40248427.84 0.2574 0.0585
Mercury -114904-04-23 13:26 J -40247149.98 -40247149.94 -40247149.91 0.2760 0.2592
Mercury -114898-05-03 10:19 J -40244949.17 -40244949.07 -40244948.97 0.2772 0.0851
Mercury -114895-10-26 18:14 J -40243676.89 -40243676.74 -40243676.59 0.2571 0.0922
Mercury -114891-04-26 07:55 J -40242399.26 -40242399.17 -40242399.09 0.2763 0.1685
Mercury -114885-05-05 04:48 J -40240198.38 -40240198.30 -40240198.22 0.2774 0.1753
Mercury -114882-10-30 00:43 J -40238925.52 -40238925.47 -40238925.43 0.2568 0.2444

Mercury -114878-04-29 02:24 J -40237648.51 -40237648.40 -40237648.30 0.2766 0.0781

Mercury -114875-10-21 12:29 J -40236377.09 -40236376.98 -40236376.86 0.2576 0.1792

Mercury -114872-05-07 23:02 J -40235447.56 -40235447.54 -40235447.51 0.2777 0.2654

Mercury -114865-04-30 20:53 J -40232897.74 -40232897.63 -40232897.52 0.2769 0.0146

Mercury -114862-10-24 18:43 J -40231625.88 -40231625.72 -40231625.56 0.2573 0.0293

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Mercury -114839-05-06 09:36 J -40223396.18 -40223396.10 -40223396.02 0.2775 0.1926

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Mercury -114829-10-21 19:12 J -40219574.83 -40219574.70 -40219574.57 0.2576 0.1499

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Mercury -114812-04-24 23:02 J -40213545.60 -40213545.54 -40213545.47 0.2761 0.2249

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Mercury -114793-05-06 14:38 J -40206593.96 -40206593.89 -40206593.83 0.2775 0.2104

Mercury -114786-04-30 12:14 J -40204044.10 -40204043.99 -40204043.89 0.2767 0.0448

Mercury -114783-10-23 01:41 J -40202772.57 -40202772.43 -40202772.29 0.2576 0.1218

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Mercury -114766-04-26 04:05 J -40196743.40 -40196743.33 -40196743.26 0.2761 0.2076

Mercury -114760-05-05 00:58 J -40194542.55 -40194542.46 -40194542.36 0.2773 0.1376

Venus -114759-07-08 03:07 J -40194113.52 -40194113.37 -40194113.22 0.2762 0.0334

Mercury -114757-10-28 14:10 J -40193270.02 -40193269.91 -40193269.80 0.2570 0.1808

Mercury -114753-04-27 22:34 J -40191992.66 -40191992.56 -40191992.46 0.2764 0.1167

Mercury -114750-10-21 02:10 J -40190721.46 -40190721.41 -40190721.35 0.2578 0.2424

Mercury -114747-05-07 19:26 J -40189791.75 -40189791.69 -40189791.63 0.2775 0.2279

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Mercury -114737-10-23 08:24 J -40185970.30 -40185970.15 -40185970.00 0.2575 0.0927

Mercury -114727-05-03 11:31 J -40182491.13 -40182491.02 -40182490.92 0.2770 0.0648

Mercury -114724-10-26 14:24 J -40181219.06 -40181218.90 -40181218.74 0.2572 0.0578

Mercury -114720-04-26 08:53 J -40179941.21 -40179941.13 -40179941.05 0.2762 0.1904

Mercury -114714-05-06 06:00 J -40177740.34 -40177740.25 -40177740.17 0.2773 0.1554

Mercury -114711-10-29 20:38 J -40176467.73 -40176467.64 -40176467.55 0.2569 0.2103

Mercury -114707-04-29 03:22 J -40175190.46 -40175190.36 -40175190.25 0.2765 0.0999

Mercury -114704-10-21 08:53 J -40173919.22 -40173919.13 -40173919.05 0.2578 0.2137

Mercury -114701-05-08 00:14 J -40172989.54 -40172989.49 -40172989.44 0.2776 0.2451

Mercury -114694-05-01 21:50 J -40170439.70 -40170439.59 -40170439.48 0.2768 0.0105

Mercury -114691-10-24 14:53 J -40169168.04 -40169167.88 -40169167.73 0.2575 0.0643

Mercury -114687-04-24 19:12 J -40167889.72 -40167889.70 -40167889.67 0.2759 0.2639

Mercury -114681-05-03 16:19 J -40165688.92 -40165688.82 -40165688.71 0.2771 0.0821

Mercury -114678-10-27 21:07 J -40164416.77 -40164416.62 -40164416.47 0.2572 0.0877

Venus -114677-01-13 07:26 J -40164339.35 -40164339.19 -40164339.03 0.2579 0.0525

Mercury -114674-04-27 13:55 J -40163139.01 -40163138.92 -40163138.84 0.2762 0.1731

Mercury -114668-05-06 10:48 J -40160938.14 -40160938.05 -40160937.97 0.2773 0.1723

Mercury -114665-10-30 03:22 J -40159665.41 -40159665.36 -40159665.31 0.2569 0.2396

Mercury -114661-04-29 08:24 J -40158388.26 -40158388.15 -40158388.05 0.2765 0.0824

Mercury -114658-10-22 15:22 J -40157116.97 -40157116.86 -40157116.75 0.2578 0.1846

Mercury -114655-05-09 05:02 J -40156187.32 -40156187.29 -40156187.25 0.2776 0.2628

Mercury -114648-05-02 02:53 J -40153637.49 -40153637.38 -40153637.27 0.2768 0.0124

Mercury -114645-10-24 21:22 J -40152365.76 -40152365.61 -40152365.45 0.2574 0.0352

Mercury -114641-04-25 00:14 J -40151087.54 -40151087.49 -40151087.44 0.2759 0.2464

Mercury -114635-05-04 21:22 J -40148886.72 -40148886.61 -40148886.51 0.2771 0.1002

Mercury -114632-10-28 03:36 J -40147614.49 -40147614.35 -40147614.21 0.2571 0.1164

Mercury -114628-04-27 18:43 J -40146336.81 -40146336.72 -40146336.63 0.2763 0.1555

Mercury -114622-05-07 15:36 J -40144135.93 -40144135.85 -40144135.77 0.2774 0.1900

Mercury -114615-04-30 13:12 J -40141586.06 -40141585.95 -40141585.84 0.2766 0.0648

Mercury -114612-10-22 22:05 J -40140314.71 -40140314.58 -40140314.46 0.2577 0.1560

Mercury -114602-05-03 07:41 J -40136835.29 -40136835.18 -40136835.07 0.2769 0.0264

Mercury -114599-10-26 04:05 J -40135563.49 -40135563.33 -40135563.17 0.2574 0.0053

Mercury -114595-04-26 05:02 J -40134285.34 -40134285.29 -40134285.23 0.2759 0.2293

Mercury -114589-05-05 02:10 J -40132084.51 -40132084.41 -40132084.31 0.2771 0.1169

Mercury -114586-10-29 10:19 J -40130812.20 -40130812.07 -40130811.94 0.2571 0.1468

Mercury -114582-04-28 23:46 J -40129534.61 -40129534.51 -40129534.42 0.2763 0.1386

Mercury -114576-05-07 20:38 J -40127333.71 -40127333.64 -40127333.57 0.2774 0.2078

Mercury -114569-04-30 18:14 J -40124783.85 -40124783.74 -40124783.64 0.2766 0.0481

Mercury -114566-10-24 04:34 J -40123512.45 -40123512.31 -40123512.17 0.2577 0.1267

Mercury -114556-05-03 12:29 J -40120033.08 -40120032.98 -40120032.87 0.2769 0.0447

Mercury -114553-10-26 10:34 J -40118761.22 -40118761.06 -40118760.90 0.2574 0.0245

Mercury -114549-04-26 10:05 J -40117483.15 -40117483.08 -40117483.01 0.2760 0.2119

Mercury -114543-05-06 06:58 J -40115282.30 -40115282.21 -40115282.11 0.2772 0.1346

Mercury -114540-10-29 16:48 J -40114009.91 -40114009.80 -40114009.68 0.2571 0.1762

Mercury -114536-04-29 04:34 J -40112732.41 -40112732.31 -40112732.21 0.2763 0.1207

Mercury -114533-10-21 05:02 J -40111461.33 -40111461.29 -40111461.25 0.2579 0.2478

Mercury -114530-05-09 01:26 J -40110531.50 -40110531.44 -40110531.38 0.2774 0.2248

Mercury -114523-05-01 23:02 J -40107981.65 -40107981.54 -40107981.43 0.2766 0.0298

Mercury -114520-10-24 11:02 J -40106710.19 -40106710.04 -40106709.89 0.2576 0.0985

Venus -114516-07-08 03:50 J -40105357.49 -40105357.34 -40105357.19 0.2765 0.0495

Mercury -114510-05-04 17:31 J -40103230.88 -40103230.77 -40103230.67 0.2769 0.0615

Mercury -114507-10-27 17:17 J -40101958.94 -40101958.78 -40101958.63 0.2573 0.0534

Mercury -114503-04-27 14:53 J -40100680.95 -40100680.88 -40100680.80 0.2760 0.1946

Mercury -114497-05-06 12:00 J -40098480.09 -40098480.00 -40098479.91 0.2772 0.1524

Mercury -114494-10-30 23:31 J -40097207.61 -40097207.52 -40097207.42 0.2570 0.2062

Mercury -114490-04-30 09:22 J -40095930.21 -40095930.11 -40095930.01 0.2764 0.1037

Mercury -114487-10-22 11:46 J -40094659.09 -40094659.01 -40094658.93 0.2579 0.2191

Mercury -114484-05-09 06:14 J -40093729.29 -40093729.24 -40093729.19 0.2775 0.2425

Mercury -114477-05-02 03:50 J -40091179.45 -40091179.34 -40091179.23 0.2767 0.0147

Mercury -114474-10-25 17:46 J -40089907.92 -40089907.76 -40089907.61 0.2576 0.0693

Mercury -114470-04-26 01:12 J -40088629.47 -40088629.45 -40088629.43 0.2757 0.2687

Mercury -114464-05-04 22:19 J -40086428.67 -40086428.57 -40086428.46 0.2770 0.0791

Mercury -114461-10-27 23:46 J -40085156.66 -40085156.51 -40085156.36 0.2573 0.0825

Mercury -114457-04-27 19:55 J -40083878.76 -40083878.67 -40083878.59 0.2761 0.1775

Mercury -114451-05-07 16:48 J -40081677.89 -40081677.80 -40081677.72 0.2772 0.1698

Mercury -114448-10-31 06:00 J -40080405.31 -40080405.25 -40080405.18 0.2570 0.2357

Mercury -114444-04-30 14:24 J -40079128.01 -40079127.90 -40079127.80 0.2764 0.0863

Mercury -114441-10-22 18:14 J -40077856.85 -40077856.74 -40077856.64 0.2579 0.1908

Mercury -114438-05-10 11:17 J -40076927.07 -40076927.03 -40076927.00 0.2775 0.2602

Venus -114434-01-13 09:07 J -40075583.29 -40075583.12 -40075582.96 0.2576 0.0257

Mercury -114431-05-03 08:53 J -40074377.24 -40074377.13 -40074377.02 0.2767 0.0079

Mercury -114428-10-26 00:14 J -40073105.65 -40073105.49 -40073105.33 0.2576 0.0401

Mercury -114424-04-26 06:14 J -40071827.28 -40071827.24 -40071827.20 0.2758 0.2511

Mercury -114418-05-06 03:22 J -40069626.47 -40069626.36 -40069626.26 0.2770 0.0970

Mercury -114415-10-29 06:29 J -40068354.37 -40068354.23 -40068354.09 0.2572 0.1127

Mercury -114411-04-29 00:43 J -40067076.56 -40067076.47 -40067076.38 0.2761 0.1600

Mercury -114405-05-07 21:36 J -40064875.68 -40064875.60 -40064875.52 0.2773 0.1874

Mercury -114398-05-01 19:12 J -40062325.80 -40062325.70 -40062325.59 0.2765 0.0684

Mercury -114395-10-24 00:43 J -40061054.59 -40061054.47 -40061054.34 0.2578 0.1618

Mercury -114385-05-03 13:41 J -40057575.04 -40057574.93 -40057574.82 0.2768 0.0230

Mercury -114382-10-27 06:43 J -40056303.38 -40056303.22 -40056303.06 0.2575 0.0121

Mercury -114378-04-27 11:02 J -40055025.09 -40055025.04 -40055024.98 0.2758 0.2338

Mercury -114372-05-06 08:10 J -40052824.26 -40052824.16 -40052824.06 0.2770 0.1141

Mercury -114369-10-29 12:58 J -40051552.09 -40051551.96 -40051551.82 0.2572 0.1418

Mercury -114365-04-29 05:31 J -40050274.36 -40050274.27 -40050274.17 0.2762 0.1425

Mercury -114359-05-09 02:38 J -40048073.46 -40048073.39 -40048073.32 0.2773 0.2051

Mercury -114352-05-02 00:14 J -40045523.60 -40045523.49 -40045523.39 0.2765 0.0522

Mercury -114349-10-24 07:12 J -40044252.33 -40044252.20 -40044252.06 0.2578 0.1331

Mercury -114339-05-04 18:29 J -40040772.83 -40040772.73 -40040772.62 0.2768 0.0420

Mercury -114336-10-27 13:26 J -40039501.10 -40039500.94 -40039500.78 0.2575 0.0189

Mercury -114332-04-27 16:05 J -40038222.90 -40038222.83 -40038222.77 0.2759 0.2161

Mercury -114326-05-07 12:58 J -40036022.05 -40036021.96 -40036021.86 0.2771 0.1319

Mercury -114323-10-30 19:41 J -40034749.80 -40034749.68 -40034749.56 0.2572 0.1721

Mercury -114319-04-30 10:34 J -40033472.16 -40033472.06 -40033471.96 0.2762 0.1246

Mercury -114316-10-22 08:10 J -40032201.19 -40032201.16 -40032201.14 0.2581 0.2533

Mercury -114313-05-09 07:26 J -40031271.25 -40031271.19 -40031271.13 0.2773 0.2224

Mercury -114306-05-03 05:02 J -40028721.40 -40028721.29 -40028721.18 0.2765 0.0332

Mercury -114303-10-25 13:55 J -40027450.06 -40027449.92 -40027449.77 0.2577 0.1033

Mercury -114293-05-04 23:31 J -40023970.63 -40023970.52 -40023970.42 0.2768 0.0582

Mercury -114290-10-28 19:55 J -40022698.82 -40022698.67 -40022698.51 0.2574 0.0486

Mercury -114286-04-28 20:53 J -40021420.70 -40021420.63 -40021420.55 0.2759 0.1987

Mercury -114280-05-07 18:00 J -40019219.85 -40019219.75 -40019219.66 0.2771 0.1496

Mercury -114277-10-31 02:10 J -40017947.51 -40017947.41 -40017947.31 0.2571 0.2014

Mercury -114273-04-30 15:22 J -40016669.96 -40016669.86 -40016669.76 0.2763 0.1073

Venus -114273-07-08 04:48 J -40016601.45 -40016601.30 -40016601.15 0.2767 0.0652

Mercury -114270-10-23 14:24 J -40015398.97 -40015398.90 -40015398.82 0.2580 0.2249

Mercury -114267-05-10 12:14 J -40014469.04 -40014468.99 -40014468.94 0.2774 0.2401

Mercury -114260-05-03 09:50 J -40011919.20 -40011919.09 -40011918.98 0.2766 0.0178

Mercury -114257-10-25 20:24 J -40010647.80 -40010647.65 -40010647.49 0.2577 0.0745

Mercury -114253-04-26 07:12 J -40009369.21 -40009369.20 -40009369.19 0.2756 0.2727

Mercury -114247-05-06 04:19 J -40007168.42 -40007168.32 -40007168.21 0.2769 0.0761

Mercury -114244-10-29 02:38 J -40005896.54 -40005896.39 -40005896.24 0.2574 0.0787

Mercury -114240-04-29 01:55 J -40004618.51 -40004618.42 -40004618.34 0.2760 0.1817

Mercury -114234-05-08 22:48 J -40002417.64 -40002417.55 -40002417.46 0.2772 0.1668

Mercury -114231-11-01 08:53 J -40001145.20 -40001145.13 -40001145.06 0.2571 0.2318

Mercury -114227-05-01 20:24 J -39999867.76 -39999867.65 -39999867.55 0.2763 0.0896

Mercury -114224-10-23 21:07 J -39998596.72 -39998596.62 -39998596.52 0.2580 0.1961

Mercury -114221-05-10 17:17 J -39997666.82 -39997666.78 -39997666.75 0.2774 0.2578

Mercury -114214-05-04 14:53 J -39995116.99 -39995116.88 -39995116.77 0.2766 0.0069

Mercury -114211-10-27 03:07 J -39993845.53 -39993845.37 -39993845.21 0.2577 0.0445

Mercury -114207-04-27 12:14 J -39992567.03 -39992566.99 -39992566.95 0.2757 0.2555

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Mercury -114198-10-30 09:07 J -39989094.26 -39989094.12 -39989093.97 0.2574 0.1081

Mercury -114194-04-30 06:43 J -39987816.31 -39987816.22 -39987816.13 0.2760 0.1635

Venus -114191-01-13 10:48 J -39986827.22 -39986827.05 -39986826.89 0.2574 0.0048

Mercury -114188-05-09 03:36 J -39985615.43 -39985615.35 -39985615.27 0.2772 0.1850

Mercury -114181-05-02 01:12 J -39983065.55 -39983065.45 -39983065.34 0.2763 0.0720

Mercury -114178-10-25 03:36 J -39981794.47 -39981794.35 -39981794.23 0.2579 0.1672

Mercury -114175-05-11 22:05 J -39980864.59 -39980864.58 -39980864.57 0.2774 0.2751

Mercury -114168-05-04 19:41 J -39978314.79 -39978314.68 -39978314.57 0.2766 0.0198

Mercury -114165-10-27 09:36 J -39977043.26 -39977043.10 -39977042.94 0.2576 0.0156

Mercury -114161-04-27 17:02 J -39975764.84 -39975764.79 -39975764.74 0.2757 0.2378

Mercury -114155-05-07 14:10 J -39973564.01 -39973563.91 -39973563.81 0.2769 0.1114

Mercury -114152-10-30 15:50 J -39972291.97 -39972291.84 -39972291.70 0.2573 0.1382

Mercury -114148-04-30 11:31 J -39971014.11 -39971014.02 -39971013.92 0.2760 0.1464

Mercury -114142-05-10 08:38 J -39968813.22 -39968813.14 -39968813.07 0.2772 0.2025

Mercury -114135-05-03 06:14 J -39966263.35 -39966263.24 -39966263.14 0.2764 0.0551

Mercury -114132-10-25 10:05 J -39964992.21 -39964992.08 -39964991.94 0.2579 0.1381

Mercury -114122-05-06 00:29 J -39961512.58 -39961512.48 -39961512.37 0.2767 0.0392

Mercury -114119-10-28 16:19 J -39960240.98 -39960240.82 -39960240.67 0.2576 0.0161

Mercury -114115-04-28 22:05 J -39958962.65 -39958962.58 -39958962.52 0.2757 0.2207

Mercury -114109-05-07 18:58 J -39956761.80 -39956761.71 -39956761.61 0.2770 0.1290

Mercury -114106-10-31 22:19 J -39955489.69 -39955489.57 -39955489.45 0.2573 0.1675

Mercury -114102-05-01 16:34 J -39954211.91 -39954211.81 -39954211.72 0.2761 0.1286

Mercury -114096-05-10 13:26 J -39952011.00 -39952010.94 -39952010.88 0.2772 0.2201

Mercury -114089-05-03 11:02 J -39949461.15 -39949461.04 -39949460.93 0.2764 0.0366

Mercury -114086-10-26 16:48 J -39948189.95 -39948189.80 -39948189.66 0.2579 0.1090

Mercury -114076-05-06 05:31 J -39944710.38 -39944710.27 -39944710.16 0.2767 0.0553

Mercury -114073-10-28 22:48 J -39943438.71 -39943438.55 -39943438.39 0.2575 0.0439

Mercury	-114069-04-29 02:53 J	-39942160.45	-39942160.38	-39942160.31	0.2758	0.2026
Mercury	-114063-05-09 00:00 J	-39939959.60	-39939959.50	-39939959.41	0.2770	0.1469
Mercury	-114060-11-01 05:02 J	-39938687.39	-39938687.29	-39938687.19	0.2572	0.1977
Mercury	-114056-05-01 21:22 J	-39937409.71	-39937409.61	-39937409.51	0.2761	0.1111
Mercury	-114053-10-23 17:17 J	-39936138.84	-39936138.78	-39936138.71	0.2582	0.2304
Mercury	-114050-05-11 18:14 J	-39935208.79	-39935208.74	-39935208.68	0.2773	0.2378
Mercury	-114043-05-04 15:50 J	-39932658.95	-39932658.84	-39932658.73	0.2765	0.0198
Mercury	-114040-10-26 23:17 J	-39931387.68	-39931387.53	-39931387.38	0.2578	0.0793
Mercury	-114030-05-07 10:19 J	-39927908.17	-39927908.07	-39927907.96	0.2768	0.0728
Venus	-114030-07-09 05:02 J	-39927845.43	-39927845.29	-39927845.14	0.2769	0.0854
Mercury	-114027-10-30 05:17 J	-39926636.43	-39926636.28	-39926636.13	0.2575	0.0735
Mercury	-114023-04-30 07:55 J	-39925358.25	-39925358.17	-39925358.09	0.2758	0.1853
Mercury	-114017-05-09 04:48 J	-39923157.39	-39923157.30	-39923157.21	0.2771	0.1643
Mercury	-114014-11-02 11:31 J	-39921885.09	-39921885.02	-39921884.95	0.2572	0.2275
Mercury	-114010-05-03 02:24 J	-39920607.51	-39920607.40	-39920607.30	0.2762	0.0933
Mercury	-114007-10-25 00:00 J	-39919336.60	-39919336.50	-39919336.41	0.2581	0.2015
Mercury	-114004-05-11 23:17 J	-39918406.57	-39918406.53	-39918406.49	0.2773	0.2557

114TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 114th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
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Mercury -113997-05-04 20:53 J -39915856.74 -39915856.63 -39915856.52 0.2765 0.0101

Mercury -113994-10-28 05:46 J -39914585.41 -39914585.26 -39914585.10 0.2578 0.0500

Mercury -113990-04-28 18:14 J -39913306.78 -39913306.74 -39913306.71 0.2755 0.2597

Mercury -113984-05-07 15:22 J -39911105.97 -39911105.86 -39911105.76 0.2768 0.0911

Mercury -113981-10-30 12:00 J -39909834.15 -39909834.00 -39909833.86 0.2575 0.1034

Mercury -113977-04-30 12:43 J -39908556.06 -39908555.97 -39908555.88 0.2759 0.1671

Mercury -113971-05-10 09:36 J -39906355.18 -39906355.10 -39906355.02 0.2771 0.1821

Mercury -113964-05-03 07:12 J -39903805.30 -39903805.20 -39903805.09 0.2762 0.0753

Mercury -113961-10-25 06:29 J -39902534.34 -39902534.23 -39902534.11 0.2581 0.1716

Mercury -113958-05-13 04:05 J -39901604.35 -39901604.33 -39901604.32 0.2773 0.2731

Mercury -113951-05-06 01:41 J -39899054.54 -39899054.43 -39899054.32 0.2765 0.0167

Venus -113948-01-13 12:43 J -39898071.13 -39898070.97 -39898070.81 0.2572 0.0355

Mercury -113948-10-28 12:29 J -39897783.14 -39897782.98 -39897782.82 0.2577 0.0201

Mercury -113944-04-28 23:02 J -39896504.59 -39896504.54 -39896504.49 0.2756 0.2417

Mercury -113938-05-08 20:10 J -39894303.76 -39894303.66 -39894303.56 0.2768 0.1084

Mercury -113935-10-31 18:29 J -39893031.86 -39893031.73 -39893031.59 0.2574 0.1335

Mercury -113931-05-01 17:31 J -39891753.86 -39891753.77 -39891753.67 0.2759 0.1500

Mercury -113925-05-10 14:38 J -39889552.97 -39889552.89 -39889552.82 0.2771 0.1998

Mercury -113918-05-04 12:00 J -39887003.10 -39887003.00 -39887002.89 0.2762 0.0585

Mercury -113915-10-26 12:58 J -39885732.09 -39885731.96 -39885731.83 0.2580 0.1430

Mercury -113905-05-06 06:43 J -39882252.33 -39882252.22 -39882252.12 0.2766 0.0365

Mercury -113902-10-29 18:58 J -39880980.86 -39880980.71 -39880980.55 0.2577 0.0124

Mercury -113898-04-30 04:05 J -39879702.40 -39879702.33 -39879702.27 0.2756 0.2242

Mercury -113892-05-09 00:58 J -39877501.55 -39877501.46 -39877501.36 0.2769 0.1264

Mercury -113889-11-01 01:12 J -39876229.57 -39876229.45 -39876229.33 0.2574 0.1638

Mercury -113885-05-01 22:34 J -39874951.66 -39874951.56 -39874951.47 0.2760 0.1319

Mercury -113879-05-11 19:26 J -39872750.76 -39872750.69 -39872750.63 0.2772 0.2178

Mercury -113872-05-04 17:02 J -39870200.90 -39870200.79 -39870200.68 0.2763 0.0398

Mercury -113869-10-26 19:41 J -39868929.82 -39868929.68 -39868929.54 0.2580 0.1131

Mercury -113859-05-07 11:31 J -39865450.13 -39865450.02 -39865449.91 0.2766 0.0524

Mercury -113856-10-30 01:41 J -39864178.59 -39864178.43 -39864178.28 0.2576 0.0400

Mercury -113852-04-30 08:53 J -39862900.20 -39862900.13 -39862900.06 0.2757 0.2063

Mercury -113846-05-10 06:00 J -39860699.35 -39860699.25 -39860699.16 0.2769 0.1445

Mercury -113843-11-02 07:41 J -39859427.28 -39859427.18 -39859427.07 0.2573 0.1937

Mercury -113839-05-03 03:22 J -39858149.46 -39858149.36 -39858149.26 0.2760 0.1142

Mercury -113836-10-24 20:10 J -39856878.72 -39856878.66 -39856878.59 0.2583 0.2356

Mercury -113833-05-12 00:14 J -39855948.54 -39855948.49 -39855948.43 0.2772 0.2357

Mercury -113826-05-05 21:50 J -39853398.70 -39853398.59 -39853398.48 0.2763 0.0231

Mercury -113823-10-28 02:10 J -39852127.56 -39852127.41 -39852127.26 0.2579 0.0844

Mercury -113813-05-07 16:19 J -39848647.92 -39848647.82 -39848647.71 0.2766 0.0703

Mercury -113810-10-31 08:10 J -39847376.31 -39847376.16 -39847376.01 0.2576 0.0694

Mercury -113806-05-01 13:41 J -39846098.00 -39846097.93 -39846097.85 0.2757 0.1891

Mercury -113800-05-10 10:48 J -39843897.14 -39843897.05 -39843896.96 0.2769 0.1618

Mercury -113797-11-02 14:24 J -39842624.98 -39842624.90 -39842624.83 0.2573 0.2238

Mercury -113793-05-03 08:24 J -39841347.26 -39841347.15 -39841347.05 0.2760 0.0966

Mercury -113790-10-26 02:53 J -39840076.47 -39840076.38 -39840076.29 0.2582 0.2061

Mercury -113787-05-13 05:17 J -39839146.33 -39839146.28 -39839146.24 0.2772 0.2535

Venus -113787-07-09 05:46 J -39839089.40 -39839089.26 -39839089.12 0.2771 0.1035

Mercury -113780-05-06 02:53 J -39836596.49 -39836596.38 -39836596.27 0.2764 0.0084

Mercury -113777-10-28 08:38 J -39835325.29 -39835325.14 -39835324.98 0.2579 0.0544

Mercury -113773-04-29 00:14 J -39834046.52 -39834046.49 -39834046.47 0.2754 0.2639

Mercury -113767-05-08 21:22 J -39831845.72 -39831845.61 -39831845.51 0.2767 0.0886

Mercury -113764-10-31 14:38 J -39830574.04 -39830573.89 -39830573.74 0.2575 0.0988

Mercury -113760-05-01 18:43 J -39829295.81 -39829295.72 -39829295.64 0.2758 0.1711

Mercury -113754-05-11 15:36 J -39827094.93 -39827094.85 -39827094.77 0.2770 0.1797

Mercury -113751-11-03 20:53 J -39825822.65 -39825822.63 -39825822.61 0.2573 0.2537

Mercury -113747-05-04 13:12 J -39824545.05 -39824544.95 -39824544.85 0.2761 0.0788

Mercury -113744-10-26 09:22 J -39823274.23 -39823274.11 -39823274.00 0.2582 0.1771

Mercury -113741-05-13 10:05 J -39822344.10 -39822344.08 -39822344.06 0.2772 0.2709

Mercury -113734-05-07 07:41 J -39819794.29 -39819794.18 -39819794.07 0.2764 0.0140

Mercury -113731-10-29 15:22 J -39818523.02 -39818522.86 -39818522.71 0.2578 0.0259

Mercury -113727-04-30 05:02 J -39817244.34 -39817244.29 -39817244.24 0.2754 0.2455

Mercury -113721-05-09 02:10 J -39815043.51 -39815043.41 -39815043.31 0.2767 0.1059

Mercury -113718-11-01 21:22 J -39813771.75 -39813771.61 -39813771.47 0.2575 0.1295

Mercury -113714-05-02 23:31 J -39812493.61 -39812493.52 -39812493.43 0.2758 0.1534

Mercury -113708-05-11 20:38 J -39810292.72 -39810292.64 -39810292.57 0.2770 0.1978

Venus -113705-01-14 14:38 J -39809315.05 -39809314.89 -39809314.73 0.2571 0.0646

Mercury -113701-05-04 18:14 J -39807742.85 -39807742.74 -39807742.64 0.2761 0.0617

Mercury -113698-10-27 15:50 J -39806471.96 -39806471.84 -39806471.71 0.2582 0.1475

Mercury -113688-05-07 12:29 J -39802992.08 -39802991.98 -39802991.87 0.2765 0.0332

Mercury -113685-10-29 21:50 J -39801720.75 -39801720.59 -39801720.43 0.2578 0.0056

Mercury -113681-04-30 09:50 J -39800442.14 -39800442.09 -39800442.03 0.2755 0.2283

Mercury -113675-05-10 06:58 J -39798241.30 -39798241.21 -39798241.11 0.2767 0.1237

Mercury -113672-11-02 03:50 J -39796969.46 -39796969.34 -39796969.21 0.2575 0.1592

Mercury -113668-05-03 04:34 J -39795691.41 -39795691.31 -39795691.22 0.2759 0.1351

Mercury -113662-05-13 01:26 J -39793490.51 -39793490.44 -39793490.37 0.2770 0.2157

Mercury -113655-05-05 23:02 J -39790940.65 -39790940.54 -39790940.43 0.2762 0.0426

Mercury -113652-10-27 22:19 J -39789669.71 -39789669.57 -39789669.42 0.2581 0.1182

Mercury -113642-05-08 17:31 J -39786189.88 -39786189.77 -39786189.66 0.2765 0.0497

Mercury -113639-10-31 04:19 J -39784918.47 -39784918.32 -39784918.16 0.2578 0.0357

Mercury -113635-05-01 14:53 J -39783639.95 -39783639.88 -39783639.81 0.2755 0.2101

Mercury -113629-05-10 12:00 J -39781439.10 -39781439.00 -39781438.91 0.2768 0.1419

Mercury -113626-11-03 10:34 J -39780167.17 -39780167.06 -39780166.95 0.2574 0.1903

Mercury -113622-05-04 09:22 J -39778889.21 -39778889.11 -39778889.01 0.2759 0.1176

Mercury -113619-10-25 23:17 J -39777618.59 -39777618.53 -39777618.48 0.2584 0.2399

Mercury -113616-05-13 06:14 J -39776688.29 -39776688.24 -39776688.18 0.2771 0.2332

Mercury -113609-05-06 03:50 J -39774138.44 -39774138.34 -39774138.23 0.2762 0.0265

Mercury -113606-10-29 05:02 J -39772867.44 -39772867.29 -39772867.14 0.2580 0.0882

Mercury -113596-05-08 22:19 J -39769387.67 -39769387.57 -39769387.46 0.2765 0.0682

Mercury -113593-10-31 11:02 J -39768116.20 -39768116.04 -39768115.89 0.2577 0.0655

Mercury -113589-05-01 19:41 J -39766837.75 -39766837.68 -39766837.60 0.2756 0.1927

Mercury -113583-05-11 16:48 J -39764636.89 -39764636.80 -39764636.71 0.2768 0.1596

Mercury -113580-11-03 17:02 J -39763364.87 -39763364.79 -39763364.71 0.2574 0.2201

Mercury -113576-05-04 14:24 J -39762087.01 -39762086.90 -39762086.80 0.2759 0.1000

Mercury -113573-10-26 05:46 J -39760816.35 -39760816.26 -39760816.18 0.2584 0.2114

Mercury -113570-05-14 11:17 J -39759886.08 -39759886.03 -39759885.99 0.2771 0.2513

Mercury -113563-05-07 08:53 J -39757336.24 -39757336.13 -39757336.02 0.2763 0.0089

Mercury -113560-10-29 11:31 J -39756065.17 -39756065.02 -39756064.87 0.2580 0.0587

Mercury -113556-04-30 06:00 J -39754786.27 -39754786.25 -39754786.22 0.2753 0.2676

Venus -113552-07-11 15:22 J -39753252.89 -39753252.86 -39753252.82 0.2771 0.2680

Mercury -113550-05-10 03:22 J -39752585.47 -39752585.36 -39752585.26 0.2766 0.0861

Mercury -113547-11-01 17:31 J -39751313.92 -39751313.77 -39751313.62 0.2577 0.0957

Venus -113544-07-09 06:00 J -39750333.38 -39750333.25 -39750333.11 0.2773 0.1256

Mercury -113543-05-03 00:43 J -39750035.56 -39750035.47 -39750035.39 0.2756 0.1745

Mercury -113537-05-11 21:36 J -39747834.68 -39747834.60 -39747834.51 0.2769 0.1780

Mercury -113534-11-04 23:46 J -39746562.54 -39746562.51 -39746562.48 0.2573 0.2509

Mercury -113530-05-05 19:12 J -39745284.80 -39745284.70 -39745284.59 0.2760 0.0817

Mercury -113527-10-27 12:14 J -39744014.10 -39744013.99 -39744013.88 0.2583 0.1820

Mercury -113524-05-14 16:05 J -39743083.85 -39743083.83 -39743083.81 0.2771 0.2692

Mercury -113517-05-07 13:41 J -39740534.04 -39740533.93 -39740533.82 0.2763 0.0113

Mercury -113514-10-30 18:00 J -39739262.90 -39739262.75 -39739262.59 0.2580 0.0294

Mercury -113510-05-01 11:02 J -39737984.09 -39737984.04 -39737984.00 0.2753 0.2498

Mercury -113504-05-10 08:10 J -39735783.26 -39735783.16 -39735783.06 0.2766 0.1034

Mercury -113501-11-02 00:00 J -39734511.64 -39734511.50 -39734511.36 0.2576 0.1255

Mercury -113497-05-03 05:31 J -39733233.36 -39733233.27 -39733233.18 0.2757 0.1567

Mercury -113491-05-13 02:38 J -39731032.47 -39731032.39 -39731032.32 0.2769 0.1958

Mercury -113484-05-06 00:14 J -39728482.60 -39728482.49 -39728482.39 0.2760 0.0645

Mercury -113481-10-27 18:43 J -39727211.85 -39727211.72 -39727211.60 0.2583 0.1527

Mercury -113471-05-08 18:29 J -39723731.83 -39723731.73 -39723731.62 0.2763 0.0312

Mercury -113468-10-31 00:29 J -39722460.63 -39722460.48 -39722460.32 0.2579 0.0070

Mercury -113464-05-01 15:50 J -39721181.89 -39721181.84 -39721181.78 0.2754 0.2318
 Venus -113462-01-14 16:48 J -39720558.96 -39720558.80 -39720558.65 0.2569 0.0962
 Mercury -113458-05-11 12:58 J -39718981.05 -39718980.96 -39718980.86 0.2766 0.1220
 Mercury -113455-11-03 06:43 J -39717709.35 -39717709.22 -39717709.09 0.2576 0.1559
 Venus -113454-01-12 08:24 J -39717639.22 -39717639.15 -39717639.08 0.2567 0.2286
 Mercury -113451-05-04 10:34 J -39716431.16 -39716431.06 -39716430.97 0.2757 0.1387
 Mercury -113445-05-13 07:26 J -39714230.26 -39714230.19 -39714230.12 0.2769 0.2133
 Mercury -113438-05-07 05:02 J -39711680.40 -39711680.29 -39711680.18 0.2760 0.0458
 Mercury -113435-10-29 01:12 J -39710409.58 -39710409.45 -39710409.31 0.2582 0.1228
 Mercury -113425-05-08 23:31 J -39706929.63 -39706929.52 -39706929.41 0.2764 0.0474
 Mercury -113422-11-01 07:12 J -39705658.36 -39705658.20 -39705658.04 0.2579 0.0310
 Mercury -113418-05-02 20:53 J -39704379.70 -39704379.63 -39704379.56 0.2754 0.2137
 Mercury -113412-05-11 18:00 J -39702178.85 -39702178.75 -39702178.66 0.2767 0.1397
 Mercury -113409-11-03 13:12 J -39700907.06 -39700906.95 -39700906.84 0.2575 0.1859
 Mercury -113405-05-04 15:22 J -39699628.96 -39699628.86 -39699628.76 0.2758 0.1207
 Mercury -113402-10-27 02:10 J -39698358.46 -39698358.41 -39698358.37 0.2585 0.2451
 Mercury -113399-05-14 12:14 J -39697428.04 -39697427.99 -39697427.93 0.2770 0.2318
 Mercury -113392-05-07 09:50 J -39694878.20 -39694878.09 -39694877.98 0.2761 0.0284
 Mercury -113389-10-29 07:41 J -39693607.32 -39693607.18 -39693607.03 0.2582 0.0933
 Mercury -113379-05-10 04:19 J -39690127.42 -39690127.32 -39690127.21 0.2764 0.0655
 Mercury -113376-11-01 13:41 J -39688856.08 -39688855.93 -39688855.77 0.2578 0.0617
 Mercury -113372-05-03 01:41 J -39687577.50 -39687577.43 -39687577.35 0.2754 0.1957
 Mercury -113366-05-12 22:48 J -39685376.64 -39685376.55 -39685376.46 0.2767 0.1575
 Mercury -113363-11-04 19:55 J -39684104.76 -39684104.67 -39684104.59 0.2575 0.2169
 Mercury -113359-05-05 20:24 J -39682826.76 -39682826.65 -39682826.55 0.2758 0.1028
 Mercury -113356-10-27 08:38 J -39681556.23 -39681556.14 -39681556.06 0.2585 0.2158
 Mercury -113353-05-14 17:17 J -39680625.83 -39680625.78 -39680625.74 0.2770 0.2497
 Mercury -113346-05-08 14:53 J -39678075.99 -39678075.88 -39678075.77 0.2761 0.0117
 Mercury -113343-10-30 14:24 J -39676805.05 -39676804.90 -39676804.75 0.2581 0.0629
 Mercury -113339-05-01 12:00 J -39675526.01 -39675526.00 -39675525.98 0.2751 0.2711

Mercury -113333-05-10 09:22 J -39673325.22 -39673325.11 -39673325.01 0.2765 0.0836

Mercury -113330-11-02 20:24 J -39672053.80 -39672053.65 -39672053.51 0.2578 0.0917

Mercury -113326-05-04 06:43 J -39670775.30 -39670775.22 -39670775.14 0.2755 0.1778

Mercury -113320-05-13 03:36 J -39668574.43 -39668574.35 -39668574.26 0.2768 0.1756

Mercury -113317-11-05 02:24 J -39667302.44 -39667302.40 -39667302.36 0.2575 0.2472

Mercury -113313-05-06 01:12 J -39666024.55 -39666024.45 -39666024.34 0.2758 0.0843

Mercury -113310-10-28 15:07 J -39664753.98 -39664753.87 -39664753.76 0.2584 0.1866

Venus -113309-07-11 15:36 J -39664496.91 -39664496.85 -39664496.78 0.2773 0.2480

Mercury -113307-05-15 22:05 J -39663823.60 -39663823.58 -39663823.55 0.2770 0.2675

Venus -113301-07-09 06:14 J -39661577.37 -39661577.24 -39661577.11 0.2775 0.1495

Mercury -113300-05-08 19:41 J -39661273.79 -39661273.68 -39661273.57 0.2762 0.0089

Mercury -113297-10-30 20:53 J -39660002.79 -39660002.63 -39660002.47 0.2581 0.0333

Mercury -113293-05-01 17:02 J -39658723.83 -39658723.79 -39658723.75 0.2752 0.2532

Mercury -113287-05-11 14:10 J -39656523.01 -39656522.91 -39656522.81 0.2765 0.1013

Mercury -113284-11-03 02:53 J -39655251.52 -39655251.38 -39655251.24 0.2578 0.1220

Mercury -113280-05-04 11:31 J -39653973.11 -39653973.02 -39653972.93 0.2755 0.1597

Mercury -113274-05-14 08:38 J -39651772.22 -39651772.14 -39651772.07 0.2768 0.1936

Mercury -113267-05-07 06:14 J -39649222.35 -39649222.24 -39649222.14 0.2759 0.0676

Mercury -113264-10-28 21:36 J -39647951.72 -39647951.60 -39647951.47 0.2584 0.1567

Mercury -113254-05-10 00:43 J -39644471.58 -39644471.47 -39644471.37 0.2762 0.0291

Mercury -113251-11-01 03:22 J -39643200.52 -39643200.36 -39643200.20 0.2580 0.0064

Mercury -113247-05-02 21:50 J -39641921.64 -39641921.59 -39641921.53 0.2752 0.2352

Mercury -113241-05-11 18:58 J -39639720.80 -39639720.71 -39639720.61 0.2765 0.1199

Mercury -113238-11-04 09:22 J -39638449.23 -39638449.11 -39638448.98 0.2577 0.1523

Mercury -113234-05-05 16:34 J -39637170.91 -39637170.81 -39637170.72 0.2756 0.1419

Mercury -113228-05-14 13:26 J -39634970.01 -39634969.94 -39634969.87 0.2768 0.2118

Mercury -113221-05-07 11:02 J -39632420.15 -39632420.04 -39632419.93 0.2759 0.0484

Venus -113219-01-14 18:58 J -39631802.85 -39631802.71 -39631802.57 0.2567 0.1300

Mercury -113218-10-30 04:05 J -39631149.47 -39631149.33 -39631149.19 0.2584 0.1273

Venus -113211-01-12 10:34 J -39628883.16 -39628883.06 -39628882.95 0.2565 0.1960

Mercury -113208-05-10 05:31 J -39627669.38 -39627669.27 -39627669.16 0.2762 0.0447

Mercury -113205-11-01 10:05 J -39626398.24 -39626398.08 -39626397.92 0.2580 0.0274

Mercury -113201-05-03 02:53 J -39625119.45 -39625119.38 -39625119.32 0.2752 0.2171

Mercury -113195-05-13 00:00 J -39622918.60 -39622918.50 -39622918.41 0.2766 0.1376

Mercury -113192-11-04 16:05 J -39621646.94 -39621646.83 -39621646.72 0.2577 0.1832

Mercury -113188-05-05 21:22 J -39620368.71 -39620368.61 -39620368.51 0.2756 0.1236

Mercury -113185-10-27 04:48 J -39619098.33 -39619098.30 -39619098.26 0.2587 0.2502

Mercury -113182-05-15 18:14 J -39618167.79 -39618167.74 -39618167.68 0.2769 0.2303

Mercury -113175-05-08 15:50 J -39615617.95 -39615617.84 -39615617.73 0.2760 0.0313

Mercury -113172-10-30 10:48 J -39614347.20 -39614347.05 -39614346.91 0.2583 0.0976

Mercury -113162-05-11 10:19 J -39610867.17 -39610867.07 -39610866.96 0.2763 0.0631

Mercury -113159-11-02 16:34 J -39609595.97 -39609595.81 -39609595.66 0.2579 0.0574

Mercury -113155-05-04 07:41 J -39608317.25 -39608317.18 -39608317.10 0.2753 0.1992

Mercury -113149-05-13 04:48 J -39606116.39 -39606116.30 -39606116.21 0.2766 0.1555

Mercury -113146-11-05 22:34 J -39604844.64 -39604844.56 -39604844.47 0.2576 0.2133

Mercury -113142-05-07 02:24 J -39603566.51 -39603566.40 -39603566.30 0.2757 0.1060

Mercury -113139-10-28 11:31 J -39602296.10 -39602296.02 -39602295.94 0.2586 0.2207

Mercury -113136-05-15 23:17 J -39601365.58 -39601365.53 -39601365.49 0.2769 0.2481

Mercury -113129-05-08 20:53 J -39598815.74 -39598815.63 -39598815.52 0.2760 0.0142

Mercury -113126-10-31 17:02 J -39597544.94 -39597544.79 -39597544.63 0.2583 0.0679

Mercury -113122-05-02 18:00 J -39596265.75 -39596265.75 -39596265.75 0.2750 0.2746

Mercury -113116-05-11 15:22 J -39594064.97 -39594064.86 -39594064.76 0.2763 0.0813

Mercury -113113-11-02 23:02 J -39592793.69 -39592793.54 -39592793.39 0.2579 0.0876

Mercury -113109-05-04 12:43 J -39591515.05 -39591514.97 -39591514.89 0.2753 0.1808

Mercury -113103-05-14 09:36 J -39589314.18 -39589314.10 -39589314.01 0.2767 0.1741

Mercury -113100-11-06 05:17 J -39588042.33 -39588042.28 -39588042.23 0.2576 0.2442

Mercury -113096-05-07 07:12 J -39586764.30 -39586764.20 -39586764.10 0.2757 0.0874

Mercury -113093-10-28 18:00 J -39585493.85 -39585493.75 -39585493.64 0.2586 0.1905

Mercury -113090-05-17 04:05 J -39584563.36 -39584563.33 -39584563.30 0.2769 0.2659

Mercury -113083-05-10 01:41 J -39582013.54 -39582013.43 -39582013.32 0.2760 0.0062

Mercury -113080-10-31 23:46 J -39580742.67 -39580742.51 -39580742.35 0.2582 0.0373

Mercury -113076-05-02 23:02 J -39579463.58 -39579463.54 -39579463.51 0.2750 0.2565

Mercury -113070-05-12 20:10 J -39577262.76 -39577262.66 -39577262.56 0.2764 0.0990

Mercury -113067-11-04 05:31 J -39575991.41 -39575991.27 -39575991.12 0.2579 0.1182

Venus -113066-07-12 16:05 J -39575740.92 -39575740.83 -39575740.75 0.2775 0.2272

Mercury -113063-05-05 17:31 J -39574712.86 -39574712.77 -39574712.68 0.2754 0.1628

Venus -113058-07-10 06:29 J -39572821.35 -39572821.23 -39572821.11 0.2777 0.1732

Mercury -113057-05-14 14:38 J -39572511.97 -39572511.89 -39572511.82 0.2767 0.1918

Mercury -113050-05-08 12:00 J -39569962.10 -39569962.00 -39569961.89 0.2758 0.0697

Mercury -113047-10-30 00:29 J -39568691.60 -39568691.48 -39568691.36 0.2585 0.1612

Mercury -113037-05-10 06:29 J -39565211.33 -39565211.23 -39565211.12 0.2761 0.0269

Mercury -113034-11-02 06:14 J -39563940.40 -39563940.24 -39563940.08 0.2582 0.0082

Mercury -113030-05-04 03:50 J -39562661.39 -39562661.34 -39562661.29 0.2751 0.2384

Mercury -113024-05-13 00:58 J -39560460.55 -39560460.46 -39560460.36 0.2764 0.1175

Mercury -113021-11-04 12:14 J -39559189.12 -39559188.99 -39559188.86 0.2578 0.1490

Mercury -113017-05-05 22:34 J -39557910.66 -39557910.56 -39557910.47 0.2754 0.1448

Mercury -113011-05-15 19:26 J -39555709.76 -39555709.69 -39555709.62 0.2767 0.2100

Mercury -113004-05-08 17:02 J -39553159.90 -39553159.79 -39553159.68 0.2758 0.0510

Mercury -113001-10-30 06:58 J -39551889.34 -39551889.21 -39551889.07 0.2585 0.1313

113TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 113th millennium BCE.

PLANET	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
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TRANSIT

TIME

Mercury -112991-05-11 11:31 J -39548409.13 -39548409.02 -39548408.91 0.2761 0.0426

Mercury -112988-11-02 12:58 J -39547138.12 -39547137.96 -39547137.81 0.2581 0.0243

Mercury -112984-05-04 08:53 J -39545859.20 -39545859.13 -39545859.07 0.2751 0.2203

Mercury -112978-05-14 06:00 J -39543658.35 -39543658.25 -39543658.16 0.2765 0.1356

Venus -112976-01-14 21:22 J -39543046.74 -39543046.61 -39543046.48 0.2566 0.1627

Mercury -112975-11-05 18:43 J -39542386.83 -39542386.72 -39542386.60 0.2578 0.1796

Mercury -112971-05-07 03:22 J -39541108.46 -39541108.36 -39541108.26 0.2755 0.1264

Venus -112968-01-12 13:12 J -39540127.07 -39540126.95 -39540126.82 0.2564 0.1594

Mercury -112968-10-28 07:55 J -39539838.20 -39539838.17 -39539838.15 0.2588 0.2545

Mercury -112965-05-16 00:29 J -39538907.54 -39538907.48 -39538907.42 0.2768 0.2285

Mercury -112958-05-09 21:50 J -39536357.70 -39536357.59 -39536357.48 0.2758 0.0336

Mercury -112955-10-31 13:26 J -39535087.08 -39535086.94 -39535086.79 0.2584 0.1015

Mercury -112945-05-11 16:19 J -39531606.92 -39531606.82 -39531606.71 0.2762 0.0611

Mercury -112942-11-03 19:26 J -39530335.85 -39530335.69 -39530335.54 0.2581 0.0538

Mercury -112938-05-05 13:41 J -39529057.00 -39529056.93 -39529056.86 0.2752 0.2020

Mercury -112932-05-14 10:48 J -39526856.14 -39526856.05 -39526855.96 0.2765 0.1541

Mercury -112929-11-06 01:26 J -39525584.53 -39525584.44 -39525584.35 0.2577 0.2105

Mercury -112925-05-07 08:24 J -39524306.25 -39524306.15 -39524306.05 0.2755 0.1084

Mercury -112922-10-29 14:24 J -39523035.98 -39523035.90 -39523035.82 0.2588 0.2245

Mercury -112919-05-17 05:17 J -39522105.33 -39522105.28 -39522105.23 0.2768 0.2465

Mercury -112912-05-10 02:53 J -39519555.49 -39519555.38 -39519555.27 0.2759 0.0159

Mercury -112909-10-31 20:10 J -39518284.82 -39518284.66 -39518284.51 0.2584 0.0714

Mercury -112899-05-12 21:22 J -39514804.72 -39514804.61 -39514804.51 0.2762 0.0794

Mercury -112896-11-04 01:55 J -39513533.57 -39513533.42 -39513533.27 0.2580 0.0840

Mercury -112892-05-05 18:43 J -39512254.80 -39512254.72 -39512254.64 0.2752 0.1842

Mercury -112886-05-15 15:50 J -39510053.93 -39510053.84 -39510053.76 0.2765 0.1723

Mercury -112883-11-07 07:55 J -39508782.22 -39508782.17 -39508782.12 0.2577 0.2409

Mercury -112879-05-08 13:12 J -39507504.05 -39507503.95 -39507503.85 0.2756 0.0901

Mercury -112876-10-29 20:53 J -39506233.73 -39506233.63 -39506233.53 0.2587 0.1955

Mercury -112873-05-17 10:05 J -39505303.10 -39505303.08 -39505303.05 0.2768 0.2650

Mercury -112866-05-11 07:41 J -39502753.29 -39502753.18 -39502753.07 0.2759 0.0042

Mercury -112863-11-02 02:38 J -39501482.55 -39501482.39 -39501482.24 0.2583 0.0419

Mercury -112859-05-04 05:02 J -39500203.33 -39500203.29 -39500203.26 0.2749 0.2601

Mercury -112853-05-13 02:10 J -39498002.51 -39498002.41 -39498002.31 0.2763 0.0972

Mercury -112850-11-05 08:24 J -39496731.29 -39496731.15 -39496731.00 0.2580 0.1149

Mercury -112846-05-06 23:31 J -39495452.61 -39495452.52 -39495452.43 0.2752 0.1659

Mercury -112840-05-15 20:38 J -39493251.72 -39493251.64 -39493251.56 0.2766 0.1904

Mercury -112833-05-08 18:00 J -39490701.85 -39490701.75 -39490701.64 0.2756 0.0725

Mercury -112830-10-31 03:22 J -39489431.48 -39489431.36 -39489431.24 0.2587 0.1656

Venus -112823-07-12 16:05 J -39486984.94 -39486984.83 -39486984.73 0.2777 0.2027

Mercury -112820-05-11 12:29 J -39485951.08 -39485950.98 -39485950.87 0.2760 0.0242

Mercury -112817-11-02 09:07 J -39484680.28 -39484680.12 -39484679.96 0.2583 0.0114

Venus -112815-07-10 06:14 J -39484065.34 -39484065.24 -39484065.13 0.2779 0.2016

Mercury -112813-05-04 09:50 J -39483401.14 -39483401.09 -39483401.04 0.2749 0.2415

Mercury -112807-05-14 06:58 J -39481200.31 -39481200.21 -39481200.11 0.2763 0.1158

Mercury -112804-11-05 14:53 J -39479929.01 -39479928.88 -39479928.75 0.2580 0.1451

Mercury -112800-05-07 04:34 J -39478650.41 -39478650.31 -39478650.22 0.2753 0.1480

Mercury -112794-05-17 01:26 J -39476449.51 -39476449.44 -39476449.37 0.2766 0.2087

Mercury -112787-05-09 23:02 J -39473899.65 -39473899.54 -39473899.43 0.2757 0.0538

Mercury -112784-10-31 09:50 J -39472629.22 -39472629.09 -39472628.96 0.2586 0.1358

Mercury -112774-05-12 17:31 J -39469148.88 -39469148.77 -39469148.66 0.2760 0.0403

Mercury -112771-11-03 15:36 J -39467878.01 -39467877.85 -39467877.69 0.2583 0.0192

Mercury -112767-05-05 14:53 J -39466598.95 -39466598.88 -39466598.82 0.2750 0.2237

Mercury -112761-05-14 12:00 J -39464398.10 -39464398.00 -39464397.91 0.2763 0.1338

Mercury -112758-11-06 21:36 J -39463126.72 -39463126.60 -39463126.49 0.2579 0.1760

Mercury -112754-05-08 09:22 J -39461848.21 -39461848.11 -39461848.01 0.2753 0.1289

Mercury -112751-10-29 10:48 J -39460578.05 -39460578.05 -39460578.04 0.2590 0.2584

Mercury -112748-05-17 06:29 J -39459647.29 -39459647.23 -39459647.17 0.2767 0.2271

Mercury -112741-05-10 03:50 J -39457097.45 -39457097.34 -39457097.23 0.2757 0.0358

Mercury -112738-11-01 16:19 J -39455826.96 -39455826.82 -39455826.67 0.2586 0.1054

Venus -112733-01-15 23:46 J -39454290.61 -39454290.51 -39454290.40 0.2564 0.1975

Mercury -112728-05-12 22:19 J -39452346.67 -39452346.57 -39452346.46 0.2761 0.0591

Venus -112725-01-13 15:50 J -39451370.99 -39451370.84 -39451370.70 0.2563 0.1263

Mercury -112725-11-03 22:05 J -39451075.73 -39451075.58 -39451075.42 0.2582 0.0504

Mercury -112721-05-05 19:41 J -39449796.75 -39449796.68 -39449796.61 0.2750 0.2051

Mercury -112715-05-15 16:48 J -39447595.89 -39447595.80 -39447595.71 0.2764 0.1522

Mercury -112712-11-07 04:05 J -39446324.42 -39446324.33 -39446324.24 0.2579 0.2070

Mercury -112708-05-08 14:10 J -39445046.01 -39445045.91 -39445045.80 0.2754 0.1115

Mercury -112705-10-29 17:17 J -39443775.85 -39443775.78 -39443775.71 0.2589 0.2291

Mercury -112702-05-18 11:17 J -39442845.08 -39442845.03 -39442844.98 0.2767 0.2451

Mercury -112695-05-11 08:53 J -39440295.24 -39440295.13 -39440295.02 0.2757 0.0184

Mercury -112692-11-01 22:48 J -39439024.70 -39439024.55 -39439024.40 0.2585 0.0756

Mercury -112682-05-14 03:22 J -39435544.47 -39435544.36 -39435544.26 0.2761 0.0773

Mercury -112679-11-05 04:48 J -39434273.45 -39434273.30 -39434273.15 0.2582 0.0811

Mercury -112675-05-07 00:43 J -39432994.55 -39432994.47 -39432994.39 0.2751 0.1871

Mercury -112669-05-15 21:50 J -39430793.68 -39430793.59 -39430793.51 0.2764 0.1708

Mercury -112666-11-08 10:48 J -39429522.11 -39429522.05 -39429521.99 0.2578 0.2385

Mercury -112662-05-09 19:12 J -39428243.80 -39428243.70 -39428243.60 0.2754 0.0926

Mercury -112659-10-30 23:46 J -39426973.61 -39426973.51 -39426973.41 0.2589 0.1995

Mercury -112656-05-18 16:05 J -39426042.86 -39426042.83 -39426042.80 0.2767 0.2636

Mercury -112649-05-11 13:41 J -39423493.04 -39423492.93 -39423492.82 0.2758 0.0035

Mercury -112646-11-03 05:31 J -39422222.43 -39422222.27 -39422222.12 0.2585 0.0452

Mercury -112642-05-05 10:48 J -39420943.07 -39420943.05 -39420943.02 0.2747 0.2631

Mercury -112636-05-14 08:10 J -39418742.26 -39418742.16 -39418742.06 0.2761 0.0956

Mercury -112633-11-05 11:17 J -39417471.17 -39417471.03 -39417470.89 0.2581 0.1114

Mercury -112629-05-07 05:31 J -39416192.36 -39416192.27 -39416192.18 0.2751 0.1685

Mercury -112623-05-17 02:38 J -39413991.47 -39413991.39 -39413991.31 0.2765 0.1889

Mercury -112616-05-10 00:00 J -39411441.60 -39411441.50 -39411441.39 0.2755 0.0746

Mercury -112613-10-31 06:14 J -39410171.36 -39410171.24 -39410171.12 0.2588 0.1701

Mercury -112603-05-12 18:29 J -39406690.83 -39406690.73 -39406690.62 0.2758 0.0233

Mercury -112600-11-03 11:46 J -39405420.16 -39405420.01 -39405419.85 0.2584 0.0166

Mercury -112596-05-05 15:50 J -39404140.89 -39404140.84 -39404140.79 0.2748 0.2451

Mercury -112590-05-15 13:12 J -39401940.05 -39401939.95 -39401939.86 0.2762 0.1142

Mercury -112587-11-06 17:46 J -39400668.89 -39400668.76 -39400668.63 0.2581 0.1423

Mercury -112583-05-08 10:19 J -39399390.16 -39399390.07 -39399389.97 0.2751 0.1505

Venus -112580-07-12 16:05 J -39398228.95 -39398228.83 -39398228.72 0.2778 0.1780

Mercury -112577-05-17 07:26 J -39397189.26 -39397189.19 -39397189.12 0.2765 0.2075

Venus -112572-07-10 06:14 J -39395309.33 -39395309.24 -39395309.15 0.2780 0.2284

Mercury -112570-05-11 05:02 J -39394639.40 -39394639.29 -39394639.18 0.2755 0.0561

Mercury -112567-11-01 12:43 J -39393369.10 -39393368.97 -39393368.84 0.2588 0.1396

Mercury -112557-05-12 23:31 J -39389888.63 -39389888.52 -39389888.41 0.2759 0.0384

Mercury -112554-11-04 18:29 J -39388617.89 -39388617.73 -39388617.57 0.2584 0.0157

Mercury -112550-05-06 20:38 J -39387338.70 -39387338.64 -39387338.58 0.2748 0.2267

Mercury -112544-05-15 18:00 J -39385137.85 -39385137.75 -39385137.66 0.2762 0.1323

Mercury -112541-11-07 00:14 J -39383866.60 -39383866.49 -39383866.37 0.2580 0.1732

Mercury -112537-05-08 15:22 J -39382587.96 -39382587.86 -39382587.77 0.2752 0.1322

Mercury -112531-05-18 12:29 J -39380387.04 -39380386.98 -39380386.92 0.2765 0.2256

Mercury -112524-05-11 09:50 J -39377837.20 -39377837.09 -39377836.98 0.2756 0.0376

Mercury -112521-11-01 19:12 J -39376566.84 -39376566.70 -39376566.56 0.2587 0.1100

Mercury -112511-05-14 04:19 J -39373086.42 -39373086.32 -39373086.21 0.2759 0.0577

Mercury -112508-11-05 00:58 J -39371815.61 -39371815.46 -39371815.30 0.2584 0.0466

Mercury -112504-05-07 01:41 J -39370536.50 -39370536.43 -39370536.36 0.2749 0.2080

Mercury -112498-05-16 22:48 J -39368335.64 -39368335.55 -39368335.46 0.2763 0.1508

Mercury -112495-11-08 06:58 J -39367064.30 -39367064.21 -39367064.11 0.2580 0.2044

Mercury -112491-05-09 20:10 J -39365785.76 -39365785.66 -39365785.56 0.2752 0.1138

Venus -112490-01-16 02:24 J -39365534.47 -39365534.40 -39365534.33 0.2563 0.2320

Mercury -112488-10-30 20:10 J -39364515.73 -39364515.66 -39364515.60 0.2591 0.2335

Mercury -112485-05-18 17:17 J -39363584.83 -39363584.78 -39363584.73 0.2766 0.2442

Venus -112482-01-13 18:29 J -39362614.89 -39362614.73 -39362614.58 0.2561 0.0891

Mercury -112478-05-12 14:53 J -39361034.99 -39361034.88 -39361034.77 0.2756 0.0208

Mercury -112475-11-03 01:41 J -39359764.58 -39359764.43 -39359764.28 0.2587 0.0793

Mercury -112465-05-14 09:22 J -39356284.22 -39356284.11 -39356284.01 0.2760 0.0755

Mercury -112462-11-06 07:26 J -39355013.34 -39355013.19 -39355013.04 0.2583 0.0774

Mercury -112458-05-08 06:29 J -39353734.30 -39353734.23 -39353734.15 0.2749 0.1897

Mercury -112452-05-17 03:50 J -39351533.43 -39351533.34 -39351533.26 0.2763 0.1694

Mercury -112449-11-08 13:26 J -39350262.00 -39350261.94 -39350261.87 0.2580 0.2355

Mercury -112445-05-10 01:12 J -39348983.55 -39348983.45 -39348983.35 0.2753 0.0949

Mercury -112442-11-01 02:38 J -39347713.48 -39347713.39 -39347713.29 0.2590 0.2036

Mercury -112439-05-19 22:05 J -39346782.61 -39346782.58 -39346782.54 0.2766 0.2629

Mercury -112432-05-12 19:41 J -39344232.79 -39344232.68 -39344232.57 0.2757 0.0024

Mercury -112429-11-03 08:10 J -39342962.31 -39342962.16 -39342962.00 0.2586 0.0492

Mercury -112425-05-05 16:48 J -39341682.82 -39341682.80 -39341682.77 0.2746 0.2663

Mercury -112419-05-15 14:10 J -39339482.01 -39339481.91 -39339481.81 0.2760 0.0935

Mercury -112416-11-06 14:10 J -39338211.06 -39338210.91 -39338210.77 0.2583 0.1084

Mercury -112412-05-08 11:31 J -39336932.11 -39336932.02 -39336931.94 0.2750 0.1712

Mercury -112406-05-18 08:38 J -39334731.22 -39334731.14 -39334731.06 0.2763 0.1874

Mercury -112399-05-11 06:00 J -39332181.35 -39332181.25 -39332181.14 0.2753 0.0767

Mercury -112396-11-01 09:07 J -39330911.23 -39330911.12 -39330911.00 0.2590 0.1732

Mercury -112386-05-14 00:43 J -39327430.58 -39327430.47 -39327430.37 0.2757 0.0212

Mercury -112383-11-04 14:53 J -39326160.04 -39326159.88 -39326159.72 0.2586 0.0183

Mercury -112379-05-06 21:50 J -39324880.64 -39324880.59 -39324880.55 0.2746 0.2478

Mercury -112373-05-15 18:58 J -39322679.80 -39322679.71 -39322679.61 0.2761 0.1129

Mercury -112370-11-07 20:38 J -39321408.77 -39321408.64 -39321408.51 0.2582 0.1392

Mercury -112366-05-09 16:19 J -39320129.91 -39320129.82 -39320129.73 0.2750 0.1531

Mercury -112360-05-18 13:26 J -39317929.01 -39317928.94 -39317928.87 0.2764 0.2059

Mercury -112353-05-11 11:02 J -39315379.15 -39315379.04 -39315378.94 0.2754 0.0586

Mercury -112350-11-02 15:36 J -39314108.98 -39314108.85 -39314108.72 0.2589 0.1439

Mercury -112340-05-14 05:31 J -39310628.38 -39310628.27 -39310628.16 0.2758 0.0368

Venus -112337-07-12 15:50 J -39309472.97 -39309472.84 -39309472.71 0.2780 0.1498

Mercury -112337-11-04 21:22 J -39309357.77 -39309357.61 -39309357.45 0.2585 0.0129

Mercury -112333-05-07 02:38 J -39308078.45 -39308078.39 -39308078.33 0.2747 0.2293

Venus -112329-07-10 05:46 J -39306553.31 -39306553.26 -39306553.21 0.2782 0.2601

Mercury -112327-05-17 00:00 J -39305877.60 -39305877.50 -39305877.40 0.2761 0.1308

Mercury -112324-11-08 03:22 J -39304606.48 -39304606.36 -39304606.25 0.2582 0.1709

Mercury -112320-05-09 21:22 J -39303327.71 -39303327.61 -39303327.52 0.2751 0.1344

Mercury -112314-05-19 18:29 J -39301126.79 -39301126.73 -39301126.67 0.2764 0.2247

Mercury -112307-05-12 15:50 J -39298576.95 -39298576.84 -39298576.73 0.2754 0.0399

Mercury -112304-11-02 22:05 J -39297306.72 -39297306.58 -39297306.44 0.2589 0.1132

Mercury -112294-05-15 10:19 J -39293826.17 -39293826.07 -39293825.96 0.2758 0.0552

Mercury -112291-11-06 03:50 J -39292555.50 -39292555.34 -39292555.18 0.2585 0.0433

Mercury -112287-05-08 07:41 J -39291276.25 -39291276.18 -39291276.11 0.2747 0.2109

Mercury -112281-05-17 04:48 J -39289075.39 -39289075.30 -39289075.21 0.2761 0.1495

Mercury -112278-11-09 09:50 J -39287804.19 -39287804.09 -39287804.00 0.2581 0.2016

Mercury -112274-05-11 02:10 J -39286525.51 -39286525.41 -39286525.31 0.2751 0.1160

Mercury -112271-10-31 23:02 J -39285255.60 -39285255.54 -39285255.48 0.2592 0.2377

Mercury -112268-05-19 23:17 J -39284324.58 -39284324.53 -39284324.48 0.2765 0.2432

Mercury -112261-05-12 20:53 J -39281774.74 -39281774.63 -39281774.52 0.2755 0.0227

Mercury -112258-11-04 04:34 J -39280504.46 -39280504.31 -39280504.16 0.2588 0.0833

Mercury -112248-05-15 15:22 J -39277023.97 -39277023.86 -39277023.76 0.2758 0.0739

Mercury -112245-11-06 10:19 J -39275753.22 -39275753.07 -39275752.92 0.2584 0.0742

Mercury -112241-05-08 12:29 J -39274474.06 -39274473.98 -39274473.90 0.2748 0.1926

Venus -112239-01-13 21:07 J -39273858.78 -39273858.62 -39273858.46 0.2560 0.0545

Mercury -112235-05-18 09:50 J -39272273.18 -39272273.09 -39272273.01 0.2762 0.1679

Mercury -112232-11-09 16:19 J -39271001.88 -39271001.82 -39271001.75 0.2581 0.2329

Mercury -112228-05-11 07:12 J -39269723.30 -39269723.20 -39269723.10 0.2751 0.0972

Mercury -112225-11-01 05:31 J -39268453.36 -39268453.27 -39268453.18 0.2592 0.2075

Mercury -112222-05-21 04:19 J -39267522.36 -39267522.32 -39267522.29 0.2765 0.2618

Mercury -112215-05-14 01:41 J -39264972.54 -39264972.43 -39264972.32 0.2755 0.0026

Mercury -112212-11-04 11:02 J -39263702.19 -39263702.04 -39263701.88 0.2588 0.0526

Mercury -112208-05-06 22:48 J -39262422.57 -39262422.55 -39262422.53 0.2744 0.2690

Mercury -112202-05-16 20:10 J -39260221.76 -39260221.66 -39260221.56 0.2759 0.0925

Mercury -112199-11-07 16:48 J -39258950.94 -39258950.80 -39258950.65 0.2584 0.1052

Mercury -112195-05-09 17:31 J -39257671.86 -39257671.77 -39257671.69 0.2748 0.1738

Mercury -112189-05-18 14:38 J -39255470.97 -39255470.89 -39255470.81 0.2762 0.1865

Mercury -112182-05-12 12:00 J -39252921.10 -39252921.00 -39252920.89 0.2752 0.0791

Mercury -112179-11-02 12:00 J -39251651.11 -39251651.00 -39251650.89 0.2591 0.1775

Mercury -112169-05-14 06:29 J -39248170.34 -39248170.23 -39248170.12 0.2756 0.0189

Mercury -112166-11-05 17:31 J -39246899.92 -39246899.77 -39246899.61 0.2587 0.0229

Mercury -112162-05-08 03:50 J -39245620.39 -39245620.34 -39245620.30 0.2745 0.2504

Mercury -112156-05-17 01:12 J -39243419.55 -39243419.45 -39243419.35 0.2759 0.1113

Mercury -112153-11-07 23:31 J -39242148.66 -39242148.52 -39242148.39 0.2583 0.1365

Mercury -112149-05-09 22:19 J -39240869.66 -39240869.57 -39240869.48 0.2749 0.1553

Mercury -112143-05-19 19:26 J -39238668.76 -39238668.69 -39238668.61 0.2763 0.2053

Mercury -112136-05-12 17:02 J -39236118.90 -39236118.79 -39236118.69 0.2753 0.0607

Mercury -112133-11-02 18:29 J -39234848.85 -39234848.73 -39234848.60 0.2591 0.1470

Mercury -112123-05-15 11:31 J -39231368.13 -39231368.02 -39231367.91 0.2756 0.0348

Mercury -112120-11-06 00:14 J -39230097.65 -39230097.49 -39230097.33 0.2587 0.0098

Mercury -112116-05-08 08:38 J -39228818.20 -39228818.14 -39228818.08 0.2745 0.2320

Mercury -112110-05-18 06:00 J -39226617.35 -39226617.25 -39226617.16 0.2760 0.1292

Mercury -112107-11-09 06:00 J -39225346.37 -39225346.25 -39225346.13 0.2583 0.1671

Mercury -112103-05-11 03:22 J -39224067.46 -39224067.36 -39224067.27 0.2749 0.1367

Mercury -112097-05-20 00:29 J -39221866.54 -39221866.48 -39221866.42 0.2763 0.2235

Venus -112094-07-13 15:22 J -39220716.99 -39220716.86 -39220716.72 0.2781 0.1221

Mercury -112090-05-13 21:50 J -39219316.70 -39219316.59 -39219316.48 0.2753 0.0415

Mercury -112087-11-04 00:58 J -39218046.60 -39218046.46 -39218046.32 0.2590 0.1170

Mercury -112077-05-15 16:19 J -39214565.92 -39214565.82 -39214565.71 0.2757 0.0539

Mercury -112074-11-07 06:43 J -39213295.38 -39213295.22 -39213295.07 0.2586 0.0402

Mercury -112070-05-09 13:41 J -39212016.00 -39212015.93 -39212015.87 0.2746 0.2138

Mercury -112064-05-18 10:48 J -39209815.14 -39209815.05 -39209814.95 0.2760 0.1481

Mercury -112061-11-09 12:29 J -39208544.08 -39208543.98 -39208543.88 0.2583 0.1990

Mercury -112057-05-11 08:10 J -39207265.26 -39207265.16 -39207265.06 0.2750 0.1181

Mercury -112054-11-02 01:55 J -39205995.47 -39205995.42 -39205995.36 0.2594 0.2415

Mercury -112051-05-21 05:17 J -39205064.33 -39205064.28 -39205064.23 0.2763 0.2419

Mercury -112044-05-14 02:53 J -39202514.49 -39202514.38 -39202514.27 0.2753 0.0247

Mercury -112041-11-04 07:26 J -39201244.33 -39201244.19 -39201244.04 0.2590 0.0861

Mercury -112031-05-16 21:22 J -39197763.72 -39197763.61 -39197763.51 0.2757 0.0725

Mercury -112028-11-07 13:12 J -39196493.10 -39196492.95 -39196492.80 0.2586 0.0710

Mercury -112024-05-09 18:29 J -39195213.81 -39195213.73 -39195213.65 0.2746 0.1947

Mercury -112018-05-19 15:50 J -39193012.93 -39193012.84 -39193012.76 0.2760 0.1670

Mercury -112015-11-10 19:12 J -39191741.77 -39191741.70 -39191741.64 0.2582 0.2303

Mercury -112011-05-12 13:12 J -39190463.06 -39190462.95 -39190462.85 0.2750 0.0999

Mercury -112008-11-02 08:24 J -39189193.23 -39189193.15 -39189193.06 0.2593 0.2112

Mercury -112005-05-21 10:05 J -39188262.11 -39188262.08 -39188262.04 0.2764 0.2608

112TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 112th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-111998-05-15 07:41 J	-39185712.29	-39185712.18	-39185712.07	0.2754	0.0041		
Venus	-111996-01-13 23:46 J	-39185102.67	-39185102.51	-39185102.34	0.2559	0.0188		

Mercury -111995-11-05 13:55 J -39184442.07 -39184441.92 -39184441.76 0.2589 0.0560
 Mercury -111991-05-08 04:48 J -39183162.31 -39183162.30 -39183162.29 0.2743 0.2717
 Mercury -111985-05-17 02:10 J -39180961.51 -39180961.41 -39180961.30 0.2757 0.0914
 Mercury -111982-11-08 19:41 J -39179690.82 -39179690.68 -39179690.53 0.2585 0.1028
 Mercury -111978-05-10 23:31 J -39178411.61 -39178411.52 -39178411.44 0.2747 0.1764
 Mercury -111972-05-19 20:38 J -39176210.72 -39176210.64 -39176210.56 0.2761 0.1855
 Mercury -111965-05-12 18:00 J -39173660.85 -39173660.75 -39173660.64 0.2751 0.0807
 Mercury -111962-11-03 14:53 J -39172390.99 -39172390.88 -39172390.77 0.2593 0.1813
 Mercury -111952-05-15 12:29 J -39168910.08 -39168909.98 -39168909.87 0.2754 0.0190
 Mercury -111949-11-05 20:38 J -39167639.80 -39167639.64 -39167639.49 0.2589 0.0257
 Mercury -111945-05-08 09:36 J -39166360.14 -39166360.10 -39166360.06 0.2743 0.2535
 Mercury -111939-05-18 07:12 J -39164159.30 -39164159.20 -39164159.10 0.2758 0.1099
 Mercury -111936-11-09 02:10 J -39162888.54 -39162888.41 -39162888.27 0.2585 0.1333
 Mercury -111932-05-11 04:19 J -39161609.41 -39161609.32 -39161609.23 0.2747 0.1576
 Mercury -111926-05-21 01:41 J -39159408.51 -39159408.43 -39159408.36 0.2761 0.2044
 Mercury -111919-05-13 23:02 J -39156858.65 -39156858.54 -39156858.44 0.2751 0.0628
 Mercury -111916-11-03 21:22 J -39155588.73 -39155588.61 -39155588.48 0.2592 0.1511
 Mercury -111906-05-16 17:31 J -39152107.88 -39152107.77 -39152107.66 0.2755 0.0335
 Mercury -111903-11-07 02:53 J -39150837.53 -39150837.38 -39150837.22 0.2588 0.0070
 Mercury -111899-05-09 14:38 J -39149557.95 -39149557.89 -39149557.84 0.2744 0.2347
 Mercury -111893-05-18 12:00 J -39147357.10 -39147357.00 -39147356.90 0.2758 0.1282
 Mercury -111890-11-10 08:53 J -39146086.25 -39146086.13 -39146086.01 0.2584 0.1648
 Mercury -111886-05-12 09:22 J -39144807.21 -39144807.11 -39144807.02 0.2748 0.1394
 Mercury -111880-05-21 06:29 J -39142606.29 -39142606.23 -39142606.17 0.2762 0.2225
 Mercury -111873-05-14 03:50 J -39140056.45 -39140056.34 -39140056.23 0.2752 0.0433
 Mercury -111870-11-05 03:50 J -39138786.47 -39138786.34 -39138786.20 0.2592 0.1202
 Mercury -111860-05-16 22:19 J -39135305.67 -39135305.57 -39135305.46 0.2755 0.0526
 Mercury -111857-11-07 09:36 J -39134035.26 -39134035.10 -39134034.95 0.2588 0.0375
 Mercury -111853-05-09 19:26 J -39132755.75 -39132755.69 -39132755.62 0.2744 0.2162
 Venus -111851-07-13 15:07 J -39131961.02 -39131960.87 -39131960.73 0.2783 0.0905

Mercury -111847-05-19 16:48 J -39130554.89 -39130554.80 -39130554.70 0.2759 0.1474

Mercury -111844-11-10 15:22 J -39129283.96 -39129283.86 -39129283.76 0.2584 0.1957

Mercury -111840-05-12 14:10 J -39128005.01 -39128004.91 -39128004.81 0.2748 0.1201

Mercury -111837-11-02 05:02 J -39126735.34 -39126735.29 -39126735.24 0.2595 0.2446

Mercury -111834-05-22 11:17 J -39125804.08 -39125804.03 -39125803.98 0.2762 0.2412

Mercury -111827-05-15 08:38 J -39123254.25 -39123254.14 -39123254.03 0.2752 0.0270

Mercury -111824-11-05 10:19 J -39121984.21 -39121984.07 -39121983.92 0.2591 0.0900

Mercury -111814-05-18 03:22 J -39118503.47 -39118503.36 -39118503.26 0.2756 0.0711

Mercury -111811-11-08 16:05 J -39117232.98 -39117232.83 -39117232.68 0.2587 0.0683

Mercury -111807-05-11 00:29 J -39115953.56 -39115953.48 -39115953.40 0.2745 0.1971

Mercury -111801-05-19 21:50 J -39113752.68 -39113752.59 -39113752.51 0.2759 0.1656

Mercury -111798-11-11 21:50 J -39112481.66 -39112481.59 -39112481.51 0.2583 0.2280

Mercury -111794-05-13 19:12 J -39111202.81 -39111202.70 -39111202.60 0.2749 0.1017

Mercury -111791-11-03 11:31 J -39109933.11 -39109933.02 -39109932.94 0.2595 0.2151

Mercury -111788-05-22 16:19 J -39109001.86 -39109001.82 -39109001.79 0.2762 0.2602

Mercury -111781-05-15 13:41 J -39106452.04 -39106451.93 -39106451.82 0.2753 0.0058

Mercury -111778-11-06 17:02 J -39105181.95 -39105181.79 -39105181.64 0.2591 0.0588

Mercury -111768-05-18 08:10 J -39101701.26 -39101701.16 -39101701.05 0.2756 0.0896

Mercury -111765-11-08 22:34 J -39100430.70 -39100430.56 -39100430.41 0.2587 0.0997

Mercury -111761-05-11 05:31 J -39099151.36 -39099151.27 -39099151.19 0.2745 0.1787

Mercury -111755-05-21 02:38 J -39096950.47 -39096950.39 -39096950.31 0.2760 0.1845

Venus -111753-01-15 02:53 J -39096346.55 -39096346.38 -39096346.22 0.2558 0.0200

Mercury -111748-05-14 00:00 J -39094400.60 -39094400.50 -39094400.39 0.2749 0.0824

Mercury -111745-11-03 18:00 J -39093130.86 -39093130.75 -39093130.65 0.2594 0.1846

Mercury -111735-05-16 18:43 J -39089649.83 -39089649.72 -39089649.61 0.2753 0.0170

Mercury -111732-11-06 23:17 J -39088379.68 -39088379.53 -39088379.37 0.2590 0.0289

Mercury -111728-05-09 15:36 J -39087099.89 -39087099.85 -39087099.81 0.2742 0.2557

Mercury -111722-05-19 13:12 J -39084899.05 -39084898.95 -39084898.85 0.2757 0.1090

Mercury -111719-11-10 05:02 J -39083628.42 -39083628.29 -39083628.15 0.2586 0.1313

Mercury -111715-05-12 10:19 J -39082349.16 -39082349.07 -39082348.98 0.2746 0.1596

Mercury -111709-05-21 07:41 J -39080148.26 -39080148.18 -39080148.11 0.2760 0.2034

Mercury -111702-05-15 05:02 J -39077598.40 -39077598.29 -39077598.19 0.2750 0.0639

Mercury -111699-11-05 00:29 J -39076328.61 -39076328.48 -39076328.36 0.2594 0.1540

Mercury -111689-05-16 23:31 J -39072847.63 -39072847.52 -39072847.41 0.2753 0.0321

Mercury -111686-11-08 06:00 J -39071577.41 -39071577.25 -39071577.10 0.2589 0.0065

Mercury -111682-05-10 20:38 J -39070297.70 -39070297.64 -39070297.59 0.2742 0.2372

Mercury -111676-05-19 18:00 J -39068096.85 -39068096.75 -39068096.65 0.2757 0.1274

Mercury -111673-11-10 11:31 J -39066826.14 -39066826.02 -39066825.89 0.2586 0.1623

Mercury -111669-05-12 15:21 J -39065546.96 -39065546.86 -39065546.77 0.2746 0.1411

Mercury -111663-05-22 12:29 J -39063346.04 -39063345.98 -39063345.92 0.2760 0.2221

Mercury -111656-05-15 09:50 J -39060796.20 -39060796.09 -39060795.98 0.2750 0.0449

Mercury -111653-11-05 06:43 J -39059526.35 -39059526.22 -39059526.08 0.2593 0.1239

Mercury -111643-05-18 04:19 J -39056045.42 -39056045.32 -39056045.21 0.2754 0.0517

Mercury -111640-11-08 12:29 J -39054775.14 -39054774.98 -39054774.83 0.2589 0.0346

Mercury -111636-05-11 01:26 J -39053495.50 -39053495.44 -39053495.37 0.2743 0.2183

Mercury -111630-05-20 22:48 J -39051294.64 -39051294.55 -39051294.45 0.2757 0.1464

Mercury -111627-11-11 18:14 J -39050023.84 -39050023.74 -39050023.64 0.2585 0.1943

Mercury -111623-05-13 20:09 J -39048744.76 -39048744.66 -39048744.56 0.2747 0.1221

Mercury -111620-11-03 07:55 J -39047475.21 -39047475.17 -39047475.13 0.2597 0.2491

Mercury -111617-05-22 17:17 J -39046543.83 -39046543.78 -39046543.73 0.2761 0.2408

Mercury -111610-05-16 14:53 J -39043993.99 -39043993.88 -39043993.77 0.2751 0.0280

Venus -111608-07-13 14:38 J -39043205.04 -39043204.89 -39043204.74 0.2784 0.0599

Mercury -111607-11-06 13:12 J -39042724.09 -39042723.95 -39042723.80 0.2593 0.0932

Mercury -111597-05-18 09:21 J -39039243.22 -39039243.11 -39039243.01 0.2754 0.0700

Mercury -111594-11-09 18:57 J -39037972.86 -39037972.71 -39037972.56 0.2588 0.0655

Mercury -111590-05-12 06:29 J -39036693.31 -39036693.23 -39036693.16 0.2743 0.1995

Mercury -111584-05-21 03:50 J -39034492.43 -39034492.34 -39034492.26 0.2758 0.1649

Mercury -111581-11-12 00:43 J -39033221.55 -39033221.47 -39033221.40 0.2585 0.2252

Mercury -111577-05-14 01:12 J -39031942.56 -39031942.45 -39031942.35 0.2747 0.1036

Mercury -111574-11-04 14:24 J -39030672.98 -39030672.90 -39030672.82 0.2596 0.2181

Mercury -111571-05-23 22:19 J -39029741.61 -39029741.57 -39029741.54 0.2761 0.2595

Mercury -111564-05-16 19:41 J -39027191.79 -39027191.68 -39027191.57 0.2751 0.0071

Mercury -111561-11-06 19:41 J -39025921.83 -39025921.68 -39025921.53 0.2592 0.0625

Mercury -111551-05-19 14:09 J -39022441.01 -39022440.91 -39022440.80 0.2755 0.0887

Mercury -111548-11-10 01:26 J -39021170.59 -39021170.44 -39021170.30 0.2588 0.0967

Mercury -111544-05-12 11:17 J -39019891.11 -39019891.03 -39019890.94 0.2744 0.1805

Mercury -111538-05-22 08:38 J -39017690.22 -39017690.14 -39017690.06 0.2758 0.1839

Mercury -111535-11-13 07:12 J -39016419.21 -39016419.20 -39016419.19 0.2584 0.2575

Mercury -111531-05-15 06:00 J -39015140.35 -39015140.25 -39015140.14 0.2748 0.0840

Mercury -111528-11-04 20:53 J -39013870.73 -39013870.63 -39013870.52 0.2596 0.1875

Mercury -111518-05-18 00:29 J -39010389.59 -39010389.48 -39010389.37 0.2752 0.0165

Mercury -111515-11-08 02:24 J -39009119.56 -39009119.40 -39009119.25 0.2592 0.0304

Mercury -111511-05-10 21:36 J -39007839.63 -39007839.60 -39007839.56 0.2740 0.2581

Venus -111510-01-15 05:45 J -39007590.42 -39007590.26 -39007590.10 0.2557 0.0571

Mercury -111505-05-19 19:12 J -39005638.80 -39005638.70 -39005638.60 0.2755 0.1078

Mercury -111502-11-11 07:55 J -39004368.31 -39004368.17 -39004368.03 0.2588 0.1283

Mercury -111498-05-13 16:19 J -39003088.91 -39003088.82 -39003088.73 0.2744 0.1612

Mercury -111492-05-22 13:41 J -39000888.01 -39000887.93 -39000887.86 0.2758 0.2028

Mercury -111485-05-15 11:02 J -38998338.15 -38998338.04 -38998337.94 0.2748 0.0658

Mercury -111482-11-06 03:21 J -38997068.48 -38997068.36 -38997068.24 0.2595 0.1568

Mercury -111472-05-18 05:31 J -38993587.38 -38993587.27 -38993587.16 0.2752 0.0310

Mercury -111469-11-08 08:53 J -38992317.29 -38992317.13 -38992316.98 0.2591 0.0033

Mercury -111465-05-11 02:38 J -38991037.45 -38991037.39 -38991037.34 0.2741 0.2390

Mercury -111459-05-21 00:00 J -38988836.60 -38988836.50 -38988836.40 0.2756 0.1266

Mercury -111456-11-11 14:38 J -38987566.02 -38987565.89 -38987565.77 0.2587 0.1607

Mercury -111452-05-13 21:21 J -38986286.71 -38986286.61 -38986286.52 0.2745 0.1429

Mercury -111446-05-23 18:29 J -38984085.79 -38984085.73 -38984085.67 0.2759 0.2212

Mercury -111439-05-16 15:50 J -38981535.95 -38981535.84 -38981535.73 0.2749 0.0461

Mercury -111436-11-06 09:50 J -38980266.23 -38980266.09 -38980265.96 0.2595 0.1265

Mercury -111426-05-19 10:19 J -38976785.17 -38976785.07 -38976784.96 0.2752 0.0508

Mercury -111423-11-09 15:21 J -38975515.02 -38975514.86 -38975514.70 0.2590 0.0321

Mercury -111419-05-12 07:26 J -38974235.25 -38974235.19 -38974235.12 0.2741 0.2202

Mercury -111413-05-21 04:48 J -38972034.39 -38972034.30 -38972034.20 0.2756 0.1456

Mercury -111410-11-12 20:53 J -38970763.73 -38970763.63 -38970763.52 0.2586 0.1917

Mercury -111406-05-15 02:09 J -38969484.51 -38969484.41 -38969484.31 0.2745 0.1235

Mercury -111403-11-04 11:02 J -38968215.08 -38968215.04 -38968215.01 0.2598 0.2517

Mercury -111400-05-23 23:17 J -38967283.58 -38967283.53 -38967283.47 0.2759 0.2405

Mercury -111393-05-16 20:53 J -38964733.74 -38964733.63 -38964733.52 0.2749 0.0295

Mercury -111390-11-07 16:19 J -38963463.97 -38963463.82 -38963463.68 0.2594 0.0960

Mercury -111380-05-19 15:21 J -38959982.97 -38959982.86 -38959982.76 0.2753 0.0689

Mercury -111377-11-09 21:50 J -38958712.75 -38958712.59 -38958712.44 0.2590 0.0629

Mercury -111373-05-12 12:29 J -38957433.06 -38957432.98 -38957432.91 0.2742 0.2013

Mercury -111367-05-22 09:50 J -38955232.18 -38955232.09 -38955232.00 0.2756 0.1644

Venus -111365-07-13 13:55 J -38954449.07 -38954448.92 -38954448.77 0.2785 0.0259

Mercury -111364-11-13 03:36 J -38953961.43 -38953961.35 -38953961.28 0.2586 0.2236

Mercury -111360-05-15 06:57 J -38952682.31 -38952682.21 -38952682.10 0.2746 0.1052

Mercury -111357-11-04 17:17 J -38951412.85 -38951412.78 -38951412.70 0.2598 0.2216

Mercury -111354-05-25 04:19 J -38950481.36 -38950481.32 -38950481.29 0.2760 0.2591

Mercury -111347-05-18 01:41 J -38947931.54 -38947931.43 -38947931.32 0.2750 0.0081

Mercury -111344-11-07 22:48 J -38946661.70 -38946661.55 -38946661.40 0.2593 0.0644

Mercury -111334-05-20 20:09 J -38943180.76 -38943180.66 -38943180.55 0.2753 0.0880

Mercury -111331-11-11 04:19 J -38941910.47 -38941910.32 -38941910.18 0.2589 0.0945

Mercury -111327-05-13 17:17 J -38940630.86 -38940630.78 -38940630.70 0.2742 0.1826

Mercury -111321-05-22 14:38 J -38938429.97 -38938429.89 -38938429.81 0.2757 0.1834

Mercury -111318-11-14 10:05 J -38937159.11 -38937159.08 -38937159.06 0.2585 0.2548

Mercury -111314-05-16 12:00 J -38935880.11 -38935880.00 -38935879.90 0.2746 0.0855

Mercury -111311-11-05 23:45 J -38934610.61 -38934610.51 -38934610.40 0.2597 0.1908

Mercury -111301-05-18 06:29 J -38931129.34 -38931129.23 -38931129.12 0.2750 0.0147

Mercury -111298-11-09 05:17 J -38929859.44 -38929859.28 -38929859.13 0.2593 0.0344

Mercury -111294-05-12 03:36 J -38928579.38 -38928579.35 -38928579.32 0.2739 0.2600

Mercury -111288-05-21 01:12 J -38926378.55 -38926378.45 -38926378.35 0.2754 0.1071

Mercury -111285-11-11 10:48 J -38925108.19 -38925108.05 -38925107.91 0.2589 0.1261

Mercury -111281-05-13 22:19 J -38923828.66 -38923828.57 -38923828.48 0.2743 0.1631

Mercury -111275-05-23 19:41 J -38921627.76 -38921627.68 -38921627.61 0.2757 0.2022

Mercury -111268-05-16 16:48 J -38919077.90 -38919077.80 -38919077.69 0.2747 0.0676

Venus -111267-01-15 08:53 J -38918834.28 -38918834.13 -38918833.98 0.2557 0.0957

Mercury -111265-11-06 06:14 J -38917808.36 -38917808.24 -38917808.12 0.2597 0.1603

Venus -111259-01-13 01:26 J -38915914.52 -38915914.44 -38915914.36 0.2556 0.2203

Mercury -111255-05-19 11:31 J -38914327.13 -38914327.02 -38914326.91 0.2750 0.0300

Mercury -111252-11-09 11:45 J -38913057.17 -38913057.01 -38913056.85 0.2592 0.0033

Mercury -111248-05-12 08:38 J -38911777.19 -38911777.14 -38911777.09 0.2739 0.2410

Mercury -111242-05-22 06:00 J -38909576.35 -38909576.25 -38909576.15 0.2754 0.1257

Mercury -111239-11-12 17:17 J -38908305.90 -38908305.78 -38908305.66 0.2588 0.1575

Mercury -111235-05-15 03:07 J -38907026.46 -38907026.37 -38907026.27 0.2743 0.1444

Mercury -111229-05-24 00:29 J -38904825.54 -38904825.48 -38904825.42 0.2758 0.2212

Mercury -111222-05-17 21:50 J -38902275.70 -38902275.59 -38902275.48 0.2747 0.0473

Mercury -111219-11-07 12:43 J -38901006.10 -38901005.97 -38901005.83 0.2596 0.1291

Mercury -111209-05-19 16:19 J -38897524.92 -38897524.82 -38897524.71 0.2751 0.0496

Mercury -111206-11-10 18:14 J -38896254.90 -38896254.74 -38896254.59 0.2592 0.0295

Mercury -111202-05-13 13:26 J -38894975.00 -38894974.94 -38894974.88 0.2740 0.2221

Mercury -111196-05-22 10:48 J -38892774.14 -38892774.05 -38892773.95 0.2754 0.1452

Mercury -111193-11-12 23:45 J -38891503.61 -38891503.51 -38891503.40 0.2588 0.1892

Mercury -111189-05-15 08:09 J -38890224.26 -38890224.16 -38890224.06 0.2744 0.1249

Mercury -111186-11-05 13:55 J -38888954.95 -38888954.92 -38888954.89 0.2600 0.2545

Mercury -111183-05-25 05:17 J -38888023.33 -38888023.28 -38888023.22 0.2758 0.2401

Mercury -111176-05-18 02:53 J -38885473.49 -38885473.38 -38885473.27 0.2748 0.0303

Mercury -111173-11-07 19:12 J -38884203.84 -38884203.70 -38884203.55 0.2595 0.0981

Mercury -111163-05-20 21:21 J -38880722.72 -38880722.61 -38880722.50 0.2751 0.0682

Mercury -111160-11-11 00:43 J -38879452.62 -38879452.47 -38879452.32 0.2591 0.0608

Mercury -111156-05-13 18:29 J -38878172.81 -38878172.73 -38878172.66 0.2740 0.2033

Mercury -111150-05-23 15:50 J -38875971.93 -38875971.84 -38875971.75 0.2755 0.1636

Mercury -111147-11-14 06:14 J -38874701.32 -38874701.24 -38874701.16 0.2587 0.2209

Mercury -111143-05-16 12:57 J -38873422.06 -38873421.96 -38873421.85 0.2744 0.1064

Mercury -111140-11-05 20:24 J -38872152.73 -38872152.65 -38872152.57 0.2599 0.2241

Mercury -111137-05-25 10:19 J -38871221.11 -38871221.07 -38871221.04 0.2758 0.2588

Mercury -111130-05-19 07:41 J -38868671.29 -38868671.18 -38868671.07 0.2748 0.0093

Mercury -111127-11-09 01:41 J -38867401.58 -38867401.43 -38867401.28 0.2595 0.0675

Venus -111122-07-14 13:12 J -38865693.10 -38865692.95 -38865692.79 0.2785 0.0105

Mercury -111117-05-21 02:09 J -38863920.51 -38863920.41 -38863920.30 0.2752 0.0875

Mercury -111114-11-12 07:12 J -38862650.35 -38862650.20 -38862650.05 0.2591 0.0921

Mercury -111110-05-14 23:17 J -38861370.61 -38861370.53 -38861370.45 0.2741 0.1838

Mercury -111104-05-23 20:38 J -38859169.72 -38859169.64 -38859169.56 0.2755 0.1830

Mercury -111101-11-14 12:57 J -38857898.99 -38857898.96 -38857898.93 0.2587 0.2537

Mercury -111097-05-16 18:00 J -38856619.86 -38856619.75 -38856619.65 0.2745 0.0870

Mercury -111094-11-07 02:53 J -38855350.49 -38855350.38 -38855350.28 0.2599 0.1940

Mercury -111084-05-19 12:43 J -38851869.09 -38851868.97 -38851868.86 0.2749 0.0150

Mercury -111081-11-09 08:09 J -38850599.32 -38850599.16 -38850599.01 0.2594 0.0362

Mercury -111077-05-12 09:36 J -38849319.13 -38849319.10 -38849319.07 0.2737 0.2620

Mercury -111071-05-22 07:12 J -38847118.30 -38847118.20 -38847118.10 0.2752 0.1064

Mercury -111068-11-12 13:41 J -38845848.07 -38845847.93 -38845847.79 0.2590 0.1239

Mercury -111064-05-15 04:19 J -38844568.41 -38844568.32 -38844568.23 0.2741 0.1649

Mercury -111058-05-25 01:41 J -38842367.51 -38842367.43 -38842367.36 0.2756 0.2020

Mercury -111051-05-17 23:02 J -38839817.65 -38839817.54 -38839817.44 0.2745 0.0684

Mercury -111048-11-07 09:21 J -38838548.23 -38838548.11 -38838547.99 0.2598 0.1631

Mercury -111038-05-20 17:31 J -38835066.88 -38835066.77 -38835066.66 0.2749 0.0291

Mercury -111035-11-10 14:38 J -38833797.05 -38833796.89 -38833796.74 0.2594 0.0075

Mercury -111031-05-13 14:24 J -38832516.95 -38832516.90 -38832516.85 0.2738 0.2433

Mercury -111025-05-22 12:00 J -38830316.10 -38830316.00 -38830315.90 0.2753 0.1253

Venus -111024-01-15 12:00 J -38830078.14 -38830078.00 -38830077.86 0.2556 0.1339

Mercury -111022-11-13 20:09 J -38829045.79 -38829045.66 -38829045.54 0.2590 0.1553

Mercury -111018-05-16 09:07 J -38827766.21 -38827766.12 -38827766.02 0.2742 0.1456

Venus -111016-01-13 04:33 J -38827158.42 -38827158.31 -38827158.19 0.2555 0.1810

Mercury -111012-05-25 06:29 J -38825565.29 -38825565.23 -38825565.16 0.2756 0.2210

Mercury -111005-05-18 03:50 J -38823015.45 -38823015.34 -38823015.23 0.2746 0.0483

Mercury -111002-11-08 15:36 J -38821745.98 -38821745.85 -38821745.71 0.2598 0.1323

111TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 111th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-110992-05-20 22:19 J	-38818264.67	-38818264.57	-38818264.46	0.2749	0.0494		
Mercury	-110989-11-10 21:07 J	-38816994.78	-38816994.62	-38816994.47	0.2593	0.0268		
Mercury	-110985-05-13 19:26 J	-38815714.75	-38815714.69	-38815714.63	0.2738	0.2240		
Mercury	-110979-05-23 17:02 J	-38813513.89	-38813513.79	-38813513.70	0.2753	0.1448		
Mercury	-110976-11-14 02:38 J	-38812243.50	-38812243.39	-38812243.28	0.2589	0.1871		
Mercury	-110972-05-16 14:09 J	-38810964.01	-38810963.91	-38810963.81	0.2742	0.1266		
Mercury	-110969-11-05 17:02 J	-38809694.81	-38809694.79	-38809694.77	0.2601	0.2576		
Mercury	-110966-05-26 11:31 J	-38808763.08	-38808763.02	-38808762.97	0.2757	0.2401		
Mercury	-110959-05-19 08:38 J	-38806213.25	-38806213.14	-38806213.03	0.2746	0.0309		
Mercury	-110956-11-08 22:05 J	-38804943.72	-38804943.58	-38804943.44	0.2597	0.1013		
Mercury	-110946-05-22 03:21 J	-38801462.47	-38801462.36	-38801462.26	0.2750	0.0675		
Mercury	-110943-11-12 03:36 J	-38800192.51	-38800192.35	-38800192.20	0.2593	0.0580		

Mercury -110939-05-15 00:14 J -38798912.56 -38798912.49 -38798912.41 0.2739 0.2047

Mercury -110933-05-23 21:50 J -38796711.68 -38796711.59 -38796711.50 0.2754 0.1636

Mercury -110930-11-15 09:07 J -38795441.20 -38795441.12 -38795441.04 0.2589 0.2194

Mercury -110926-05-17 18:57 J -38794161.81 -38794161.71 -38794161.60 0.2743 0.1075

Mercury -110923-11-06 23:17 J -38792892.60 -38792892.53 -38792892.45 0.2601 0.2273

Mercury -110920-05-26 16:19 J -38791960.86 -38791960.82 -38791960.79 0.2757 0.2588

Mercury -110913-05-19 13:41 J -38789411.04 -38789410.93 -38789410.82 0.2747 0.0105

Mercury -110910-11-10 04:33 J -38788141.46 -38788141.31 -38788141.16 0.2597 0.0702

Mercury -110900-05-22 08:09 J -38784660.26 -38784660.16 -38784660.05 0.2750 0.0864

Mercury -110897-11-12 10:05 J -38783390.23 -38783390.08 -38783389.94 0.2592 0.0898

Mercury -110893-05-15 05:17 J -38782110.36 -38782110.28 -38782110.20 0.2739 0.1854

Mercury -110887-05-25 02:38 J -38779909.47 -38779909.39 -38779909.31 0.2754 0.1824

Mercury -110884-11-15 15:36 J -38778638.88 -38778638.85 -38778638.81 0.2588 0.2508

Mercury -110880-05-18 00:00 J -38777359.61 -38777359.50 -38777359.40 0.2743 0.0878

Venus -110879-07-14 12:29 J -38776937.13 -38776936.98 -38776936.83 0.2786 0.0438

Mercury -110877-11-07 05:45 J -38776090.36 -38776090.26 -38776090.16 0.2600 0.1966

Mercury -110867-05-20 18:29 J -38772608.84 -38772608.73 -38772608.62 0.2747 0.0135

Mercury -110864-11-10 11:02 J -38771339.19 -38771339.04 -38771338.89 0.2596 0.0388

Mercury -110860-05-13 15:21 J -38770058.88 -38770058.86 -38770058.83 0.2735 0.2644

Mercury -110854-05-23 13:12 J -38767858.06 -38767857.95 -38767857.85 0.2751 0.1058

Mercury -110851-11-13 16:33 J -38766587.95 -38766587.81 -38766587.67 0.2592 0.1213

Mercury -110847-05-16 10:19 J -38765308.16 -38765308.07 -38765307.99 0.2739 0.1663

Mercury -110841-05-25 07:41 J -38763107.26 -38763107.18 -38763107.11 0.2754 0.2016

Mercury -110834-05-19 04:48 J -38760557.40 -38760557.30 -38760557.19 0.2743 0.0695

Mercury -110831-11-08 12:14 J -38759288.11 -38759287.99 -38759287.87 0.2600 0.1655

Mercury -110821-05-20 23:31 J -38755806.63 -38755806.52 -38755806.41 0.2747 0.0285

Mercury -110818-11-11 17:31 J -38754536.92 -38754536.77 -38754536.61 0.2595 0.0076

Mercury -110814-05-14 20:24 J -38753256.70 -38753256.65 -38753256.60 0.2736 0.2446

Mercury -110808-05-23 18:00 J -38751055.85 -38751055.75 -38751055.65 0.2751 0.1251

Mercury -110805-11-13 23:02 J -38749785.67 -38749785.54 -38749785.41 0.2591 0.1536

Mercury -110801-05-16 15:07 J -38748505.96 -38748505.87 -38748505.77 0.2740 0.1470

Mercury -110795-05-26 12:29 J -38746305.04 -38746304.98 -38746304.91 0.2755 0.2207

Mercury -110788-05-19 09:50 J -38743755.20 -38743755.09 -38743754.98 0.2744 0.0495

Mercury -110785-11-08 18:43 J -38742485.85 -38742485.72 -38742485.59 0.2599 0.1348

Venus -110781-01-16 15:07 J -38741321.99 -38741321.87 -38741321.75 0.2555 0.1725

Mercury -110775-05-22 04:19 J -38739004.42 -38739004.32 -38739004.21 0.2748 0.0485

Venus -110773-01-14 07:55 J -38738402.31 -38738402.17 -38738402.04 0.2555 0.1422

Mercury -110772-11-12 00:00 J -38737734.66 -38737734.50 -38737734.35 0.2595 0.0244

Mercury -110768-05-15 01:26 J -38736454.50 -38736454.44 -38736454.38 0.2736 0.2253

Mercury -110762-05-24 23:02 J -38734253.64 -38734253.54 -38734253.45 0.2752 0.1445

Mercury -110759-11-15 05:31 J -38732983.38 -38732983.27 -38732983.16 0.2591 0.1858

Mercury -110755-05-17 20:09 J -38731703.76 -38731703.66 -38731703.56 0.2740 0.1274

Mercury -110749-05-26 17:31 J -38729502.83 -38729502.77 -38729502.72 0.2756 0.2402

Mercury -110742-05-20 14:38 J -38726953.00 -38726952.89 -38726952.78 0.2744 0.0318

Mercury -110739-11-10 00:57 J -38725683.60 -38725683.46 -38725683.31 0.2599 0.1043

Mercury -110729-05-22 09:21 J -38722202.22 -38722202.11 -38722202.00 0.2748 0.0669

Mercury -110726-11-13 06:29 J -38720932.38 -38720932.23 -38720932.08 0.2594 0.0559

Mercury -110722-05-16 06:14 J -38719652.31 -38719652.24 -38719652.16 0.2737 0.2063

Mercury -110716-05-25 03:50 J -38717451.43 -38717451.34 -38717451.25 0.2752 0.1630

Mercury -110713-11-15 12:00 J -38716181.08 -38716181.00 -38716180.92 0.2590 0.2174

Mercury -110709-05-18 00:57 J -38714901.56 -38714901.46 -38714901.36 0.2741 0.1085

Mercury -110706-11-08 02:24 J -38713632.47 -38713632.40 -38713632.33 0.2602 0.2303

Mercury -110703-05-27 22:19 J -38712700.60 -38712700.57 -38712700.54 0.2756 0.2591

Mercury -110696-05-20 19:41 J -38710150.79 -38710150.68 -38710150.57 0.2745 0.0111

Mercury -110693-11-10 07:26 J -38708881.34 -38708881.19 -38708881.04 0.2598 0.0730

Mercury -110683-05-23 14:09 J -38705400.01 -38705399.91 -38705399.80 0.2749 0.0860

Mercury -110680-11-13 12:43 J -38704130.11 -38704129.97 -38704129.82 0.2594 0.0873

Mercury -110676-05-16 11:17 J -38702850.11 -38702850.03 -38702849.95 0.2737 0.1871

Mercury -110670-05-26 08:38 J -38700649.22 -38700649.14 -38700649.05 0.2753 0.1825

Mercury -110667-11-16 18:29 J -38699378.77 -38699378.73 -38699378.69 0.2590 0.2495

Mercury -110663-05-19 06:00 J -38698099.36 -38698099.25 -38698099.15 0.2741 0.0892
 Mercury -110660-11-08 08:38 J -38696830.23 -38696830.14 -38696830.04 0.2602 0.1996
 Mercury -110650-05-22 00:29 J -38693348.59 -38693348.48 -38693348.37 0.2745 0.0113
 Mercury -110647-11-11 13:55 J -38692079.07 -38692078.92 -38692078.76 0.2597 0.0414
 Mercury -110643-05-14 21:21 J -38690798.63 -38690798.61 -38690798.58 0.2734 0.2656
 Mercury -110637-05-23 19:12 J -38688597.80 -38688597.70 -38688597.60 0.2749 0.1057
 Venus -110636-07-14 11:31 J -38688181.17 -38688181.02 -38688180.87 0.2787 0.0811
 Mercury -110634-11-14 19:26 J -38687327.83 -38687327.69 -38687327.55 0.2593 0.1193
 Mercury -110630-05-17 16:05 J -38686047.91 -38686047.83 -38686047.74 0.2738 0.1679
 Mercury -110624-05-26 13:41 J -38683847.01 -38683846.93 -38683846.86 0.2753 0.2016
 Mercury -110617-05-19 10:48 J -38681297.15 -38681297.05 -38681296.94 0.2742 0.0700
 Mercury -110614-11-09 15:07 J -38680027.98 -38680027.87 -38680027.75 0.2601 0.1686
 Mercury -110604-05-22 05:31 J -38676546.38 -38676546.27 -38676546.16 0.2746 0.0282
 Mercury -110601-11-11 20:24 J -38675276.81 -38675276.65 -38675276.50 0.2597 0.0101
 Mercury -110597-05-15 02:24 J -38673996.45 -38673996.40 -38673996.35 0.2734 0.2462
 Mercury -110591-05-25 00:00 J -38671795.60 -38671795.50 -38671795.40 0.2750 0.1245
 Mercury -110588-11-15 01:55 J -38670525.55 -38670525.42 -38670525.30 0.2593 0.1513
 Mercury -110584-05-17 21:07 J -38669245.71 -38669245.62 -38669245.53 0.2738 0.1478
 Mercury -110578-05-27 18:29 J -38667044.79 -38667044.73 -38667044.66 0.2754 0.2210
 Mercury -110571-05-20 15:50 J -38664494.95 -38664494.84 -38664494.73 0.2742 0.0504
 Mercury -110568-11-09 21:36 J -38663225.73 -38663225.60 -38663225.47 0.2601 0.1373
 Mercury -110558-05-23 10:19 J -38659744.18 -38659744.07 -38659743.96 0.2746 0.0476
 Mercury -110555-11-13 02:53 J -38658474.53 -38658474.38 -38658474.22 0.2596 0.0225
 Mercury -110551-05-16 07:26 J -38657194.25 -38657194.19 -38657194.13 0.2735 0.2267
 Mercury -110545-05-25 04:48 J -38654993.39 -38654993.30 -38654993.20 0.2750 0.1441
 Mercury -110542-11-16 08:24 J -38653723.26 -38653723.15 -38653723.04 0.2592 0.1837
 Venus -110538-01-16 18:29 J -38652565.82 -38652565.73 -38652565.64 0.2555 0.2113
 Mercury -110538-05-19 02:09 J -38652443.51 -38652443.41 -38652443.32 0.2739 0.1289
 Mercury -110532-05-27 23:31 J -38650242.58 -38650242.52 -38650242.47 0.2754 0.2401
 Venus -110530-01-14 11:02 J -38649646.19 -38649646.04 -38649645.89 0.2554 0.1035

Mercury -110525-05-20 20:38 J -38647692.75 -38647692.64 -38647692.53 0.2743 0.0318

Mercury -110522-11-11 04:05 J -38646423.47 -38646423.33 -38646423.19 0.2600 0.1062

Mercury -110512-05-23 15:21 J -38642941.97 -38642941.86 -38642941.75 0.2747 0.0667

Mercury -110509-11-13 09:21 J -38641672.26 -38641672.11 -38641671.96 0.2596 0.0537

Mercury -110505-05-16 12:14 J -38640392.06 -38640391.99 -38640391.92 0.2735 0.2076

Mercury -110499-05-26 09:50 J -38638191.18 -38638191.09 -38638191.00 0.2751 0.1630

Mercury -110496-11-16 14:53 J -38636920.97 -38636920.88 -38636920.80 0.2592 0.2156

Mercury -110492-05-19 06:57 J -38635641.31 -38635641.21 -38635641.11 0.2739 0.1092

Mercury -110489-11-08 05:17 J -38634372.34 -38634372.28 -38634372.21 0.2604 0.2329

Mercury -110486-05-29 04:19 J -38633440.35 -38633440.32 -38633440.29 0.2755 0.2592

Mercury -110479-05-22 01:41 J -38630890.54 -38630890.43 -38630890.32 0.2743 0.0121

Mercury -110476-11-11 10:33 J -38629621.21 -38629621.06 -38629620.91 0.2600 0.0748

Mercury -110466-05-24 20:09 J -38626139.76 -38626139.66 -38626139.55 0.2747 0.0860

Mercury -110463-11-14 15:50 J -38624869.99 -38624869.84 -38624869.69 0.2595 0.0856

Mercury -110459-05-17 17:17 J -38623589.86 -38623589.78 -38623589.70 0.2736 0.1881

Mercury -110453-05-26 14:38 J -38621388.97 -38621388.89 -38621388.80 0.2751 0.1828

Mercury -110450-11-17 21:21 J -38620118.65 -38620118.61 -38620118.57 0.2591 0.2477

Mercury -110446-05-20 12:00 J -38618839.11 -38618839.00 -38618838.90 0.2740 0.0905

Mercury -110443-11-09 11:45 J -38617570.10 -38617570.01 -38617569.91 0.2603 0.2022

Mercury -110433-05-22 06:29 J -38614088.34 -38614088.23 -38614088.12 0.2744 0.0093

Mercury -110430-11-12 16:48 J -38612818.95 -38612818.80 -38612818.64 0.2599 0.0440

Mercury -110426-05-16 03:21 J -38611538.38 -38611538.36 -38611538.34 0.2732 0.2673

Mercury -110420-05-25 01:12 J -38609337.56 -38609337.45 -38609337.35 0.2748 0.1052

Mercury -110417-11-14 22:19 J -38608067.71 -38608067.57 -38608067.43 0.2595 0.1173

Mercury -110413-05-17 22:05 J -38606787.66 -38606787.58 -38606787.49 0.2736 0.1688

Mercury -110407-05-27 19:41 J -38604586.75 -38604586.68 -38604586.61 0.2752 0.2018

Mercury -110400-05-20 16:48 J -38602036.91 -38602036.80 -38602036.69 0.2740 0.0705

Mercury -110397-11-09 18:00 J -38600767.86 -38600767.75 -38600767.63 0.2603 0.1716

Venus -110393-07-14 10:33 J -38599425.20 -38599425.06 -38599424.92 0.2787 0.1191

Mercury -110387-05-23 11:31 J -38597286.13 -38597286.02 -38597285.91 0.2744 0.0277

Mercury -110384-11-12 23:17 J -38596016.68 -38596016.53 -38596016.37 0.2599 0.0127

Mercury -110380-05-16 08:24 J -38594736.20 -38594736.15 -38594736.11 0.2733 0.2477

Mercury -110374-05-26 06:00 J -38592535.35 -38592535.25 -38592535.15 0.2748 0.1243

Mercury -110371-11-16 04:48 J -38591265.43 -38591265.30 -38591265.18 0.2594 0.1494

Mercury -110367-05-19 03:07 J -38589985.46 -38589985.37 -38589985.28 0.2737 0.1494

Mercury -110361-05-28 00:29 J -38587784.54 -38587784.48 -38587784.41 0.2752 0.2210

Mercury -110354-05-21 21:50 J -38585234.70 -38585234.59 -38585234.48 0.2741 0.0516

Mercury -110351-11-11 00:29 J -38583965.61 -38583965.48 -38583965.35 0.2602 0.1404

Mercury -110341-05-23 16:19 J -38580483.93 -38580483.82 -38580483.71 0.2745 0.0471

Mercury -110338-11-14 05:45 J -38579214.42 -38579214.26 -38579214.11 0.2598 0.0194

Mercury -110334-05-17 13:12 J -38577934.01 -38577933.95 -38577933.89 0.2733 0.2284

Mercury -110328-05-26 11:02 J -38575733.14 -38575733.04 -38575732.95 0.2749 0.1442

Mercury -110325-11-16 11:02 J -38574463.15 -38574463.04 -38574462.92 0.2594 0.1813

Mercury -110321-05-19 07:55 J -38573183.26 -38573183.17 -38573183.07 0.2737 0.1300

Mercury -110315-05-29 05:31 J -38570982.32 -38570982.27 -38570982.22 0.2753 0.2406

Mercury -110308-05-22 02:38 J -38568432.50 -38568432.39 -38568432.28 0.2741 0.0321

Mercury -110305-11-11 06:57 J -38567163.35 -38567163.21 -38567163.07 0.2602 0.1085

Venus -110295-01-16 21:36 J -38563809.63 -38563809.60 -38563809.57 0.2555 0.2501

Mercury -110295-05-24 21:21 J -38563681.72 -38563681.61 -38563681.51 0.2745 0.0663

Mercury -110292-11-14 12:14 J -38562412.14 -38562411.99 -38562411.84 0.2597 0.0514

Mercury -110288-05-17 18:14 J -38561131.81 -38561131.74 -38561131.67 0.2733 0.2085

Venus -110287-01-14 14:38 J -38560890.05 -38560889.89 -38560889.74 0.2554 0.0646

Mercury -110282-05-27 15:50 J -38558930.93 -38558930.84 -38558930.75 0.2749 0.1634

Mercury -110279-11-17 17:31 J -38557660.85 -38557660.77 -38557660.68 0.2593 0.2138

Mercury -110275-05-20 12:57 J -38556381.06 -38556380.96 -38556380.86 0.2738 0.1101

Mercury -110272-11-09 08:24 J -38555112.21 -38555112.15 -38555112.08 0.2606 0.2350

Mercury -110269-05-29 10:19 J -38554180.10 -38554180.07 -38554180.04 0.2753 0.2598

Mercury -110262-05-23 07:41 J -38551630.29 -38551630.18 -38551630.07 0.2742 0.0145

Mercury -110259-11-12 13:26 J -38550361.09 -38550360.94 -38550360.79 0.2601 0.0773

Mercury -110249-05-25 02:09 J -38546879.51 -38546879.41 -38546879.30 0.2746 0.0856

Mercury -110246-11-15 18:43 J -38545609.87 -38545609.72 -38545609.57 0.2597 0.0835

Mercury -110242-05-18 23:17 J -38544329.61 -38544329.53 -38544329.45 0.2734 0.1895

Mercury -110236-05-27 20:38 J -38542128.72 -38542128.64 -38542128.55 0.2750 0.1827

Mercury -110233-11-18 00:14 J -38540858.54 -38540858.49 -38540858.45 0.2593 0.2463

Mercury -110229-05-20 18:00 J -38539578.86 -38539578.75 -38539578.65 0.2738 0.0912

Mercury -110226-11-10 14:53 J -38538309.98 -38538309.88 -38538309.79 0.2605 0.2047

Mercury -110216-05-23 12:29 J -38534828.09 -38534827.98 -38534827.87 0.2742 0.0088

Mercury -110213-11-12 19:55 J -38533558.83 -38533558.67 -38533558.52 0.2601 0.0462

Mercury -110209-05-16 09:21 J -38532278.13 -38532278.11 -38532278.10 0.2730 0.2685

Mercury -110203-05-26 07:12 J -38530077.31 -38530077.20 -38530077.10 0.2746 0.1055

Mercury -110200-11-16 01:12 J -38528807.59 -38528807.45 -38528807.31 0.2596 0.1155

Mercury -110196-05-19 04:05 J -38527527.42 -38527527.33 -38527527.24 0.2735 0.1697

Mercury -110190-05-29 01:41 J -38525326.51 -38525326.43 -38525326.36 0.2750 0.2019

Mercury -110183-05-21 22:48 J -38522776.66 -38522776.55 -38522776.44 0.2739 0.0713

Mercury -110180-11-10 21:07 J -38521507.73 -38521507.62 -38521507.50 0.2604 0.1738

Mercury -110170-05-24 17:31 J -38518025.88 -38518025.77 -38518025.66 0.2743 0.0281

Mercury -110167-11-14 02:09 J -38516756.56 -38516756.41 -38516756.25 0.2600 0.0152

Mercury -110163-05-17 14:09 J -38515475.95 -38515475.91 -38515475.86 0.2731 0.2493

Venus -110158-07-17 19:55 J -38513588.71 -38513588.67 -38513588.63 0.2787 0.2680

Mercury -110157-05-26 12:00 J -38513275.10 -38513275.00 -38513274.90 0.2747 0.1244

Mercury -110154-11-17 07:26 J -38512005.31 -38512005.19 -38512005.06 0.2596 0.1475

Mercury -110150-05-20 09:07 J -38510725.22 -38510725.12 -38510725.03 0.2735 0.1504

Venus -110150-07-15 09:21 J -38510669.23 -38510669.11 -38510668.98 0.2787 0.1602

Mercury -110144-05-29 06:29 J -38508524.29 -38508524.23 -38508524.16 0.2751 0.2217

Mercury -110137-05-22 03:50 J -38505974.45 -38505974.34 -38505974.23 0.2739 0.0524

Mercury -110134-11-12 03:36 J -38504705.48 -38504705.35 -38504705.22 0.2604 0.1424

Mercury -110124-05-24 22:19 J -38501223.68 -38501223.57 -38501223.46 0.2743 0.0465

Mercury -110121-11-14 08:38 J -38499954.29 -38499954.14 -38499953.98 0.2600 0.0181

Mercury -110117-05-17 19:12 J -38498673.76 -38498673.70 -38498673.64 0.2731 0.2296

Mercury -110111-05-27 17:02 J -38496472.89 -38496472.79 -38496472.70 0.2747 0.1445

Mercury -110108-11-17 14:09 J -38495203.03 -38495202.91 -38495202.80 0.2595 0.1800

Mercury -110104-05-20 13:55 J -38493923.01 -38493922.92 -38493922.82 0.2735 0.1306

Mercury -110098-05-30 11:31 J -38491722.07 -38491722.02 -38491721.97 0.2751 0.2411

Mercury -110091-05-23 08:38 J -38489172.25 -38489172.14 -38489172.03 0.2740 0.0321

Mercury -110088-11-12 10:05 J -38487903.22 -38487903.08 -38487902.95 0.2603 0.1116

Mercury -110078-05-26 03:21 J -38484421.47 -38484421.36 -38484421.26 0.2744 0.0667

Mercury -110075-11-15 15:07 J -38483152.02 -38483151.87 -38483151.72 0.2599 0.0493

Mercury -110071-05-19 00:14 J -38481871.56 -38481871.49 -38481871.42 0.2732 0.2099

Mercury -110065-05-27 21:50 J -38479670.68 -38479670.59 -38479670.50 0.2748 0.1636

Mercury -110062-11-18 20:38 J -38478400.73 -38478400.64 -38478400.56 0.2595 0.2127

Mercury -110058-05-21 18:57 J -38477120.81 -38477120.71 -38477120.61 0.2736 0.1110

Mercury -110055-11-10 11:17 J -38475852.08 -38475852.03 -38475851.97 0.2607 0.2384

Mercury -110052-05-30 16:19 J -38474919.85 -38474919.82 -38474919.79 0.2752 0.2604

Mercury -110045-05-23 13:41 J -38472370.05 -38472369.93 -38472369.82 0.2740 0.0160

Venus -110044-01-14 17:45 J -38472133.92 -38472133.76 -38472133.59 0.2554 0.0254

Mercury -110042-11-13 16:19 J -38471100.97 -38471100.82 -38471100.67 0.2603 0.0799

Mercury -110032-05-26 08:09 J -38467619.26 -38467619.16 -38467619.05 0.2744 0.0857

Mercury -110029-11-15 21:36 J -38466349.75 -38466349.60 -38466349.45 0.2599 0.0813

Mercury -110025-05-19 05:02 J -38465069.37 -38465069.29 -38465069.21 0.2732 0.1902

Mercury -110019-05-29 02:38 J -38462868.47 -38462868.39 -38462868.30 0.2748 0.1833

Mercury -110016-11-19 03:07 J -38461598.42 -38461598.37 -38461598.33 0.2594 0.2450

Mercury -110012-05-21 23:45 J -38460318.61 -38460318.51 -38460318.40 0.2737 0.0918

Mercury -110009-11-10 17:45 J -38459049.85 -38459049.76 -38459049.66 0.2607 0.2068

110TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 110th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-109999-05-24 18:28 J	-38455567.84	-38455567.73	-38455567.62	0.2741	0.0074		
Mercury	-109996-11-13 22:48 J	-38454298.70	-38454298.55	-38454298.40	0.2602	0.0486		
Mercury	-109992-05-17 15:21 J	-38453017.88	-38453017.86	-38453017.85	0.2729	0.2698		
Mercury	-109986-05-27 13:12 J	-38450817.06	-38450816.95	-38450816.85	0.2745	0.1055		
Mercury	-109983-11-17 03:50 J	-38449547.48	-38449547.34	-38449547.20	0.2598	0.1135		
Mercury	-109979-05-20 10:04 J	-38448267.17	-38448267.08	-38448266.99	0.2733	0.1706		
Mercury	-109973-05-29 07:40 J	-38446066.25	-38446066.18	-38446066.11	0.2749	0.2024		
Mercury	-109966-05-23 04:48 J	-38443516.41	-38443516.30	-38443516.19	0.2737	0.0715		
Mercury	-109963-11-12 00:14 J	-38442247.60	-38442247.49	-38442247.38	0.2606	0.1759		
Mercury	-109953-05-24 23:31 J	-38438765.63	-38438765.52	-38438765.41	0.2741	0.0283		
Mercury	-109950-11-15 05:16 J	-38437496.44	-38437496.28	-38437496.13	0.2602	0.0162		
Mercury	-109946-05-18 20:09 J	-38436215.70	-38436215.66	-38436215.62	0.2729	0.2503		
Mercury	-109940-05-27 18:00 J	-38434014.85	-38434014.75	-38434014.65	0.2745	0.1246		
Mercury	-109937-11-17 10:33 J	-38432745.19	-38432745.06	-38432744.94	0.2598	0.1459		
Mercury	-109933-05-20 15:07 J	-38431464.97	-38431464.87	-38431464.78	0.2733	0.1512		
Mercury	-109927-05-30 12:28 J	-38429264.04	-38429263.98	-38429263.91	0.2749	0.2220		
Mercury	-109920-05-23 09:36 J	-38426714.21	-38426714.10	-38426713.99	0.2738	0.0530		
Mercury	-109917-11-12 06:28 J	-38425445.35	-38425445.23	-38425445.10	0.2606	0.1449		
Venus	-109915-07-17 18:43 J	-38424832.80	-38424832.72	-38424832.63	0.2787	0.2274		
Mercury	-109907-05-26 04:19 J	-38421963.43	-38421963.32	-38421963.21	0.2742	0.0466		
Venus	-109907-07-15 08:24 J	-38421913.26	-38421913.15	-38421913.04	0.2788	0.1982		
Mercury	-109904-11-15 11:31 J	-38420694.17	-38420694.02	-38420693.86	0.2601	0.0170		

Mercury -109900-05-19 01:12 J -38419413.51 -38419413.45 -38419413.39 0.2730 0.2304

Mercury -109894-05-28 23:02 J -38417212.64 -38417212.54 -38417212.45 0.2746 0.1447

Mercury -109891-11-18 17:02 J -38415942.90 -38415942.79 -38415942.68 0.2597 0.1789

Mercury -109887-05-21 19:55 J -38414662.77 -38414662.67 -38414662.57 0.2734 0.1312

Mercury -109881-05-30 17:31 J -38412461.82 -38412461.77 -38412461.72 0.2750 0.2415

Mercury -109874-05-24 14:38 J -38409912.00 -38409911.89 -38409911.78 0.2738 0.0322

Mercury -109871-11-13 12:57 J -38408643.10 -38408642.96 -38408642.82 0.2605 0.1134

Mercury -109861-05-26 09:21 J -38405161.22 -38405161.11 -38405161.01 0.2742 0.0665

Mercury -109858-11-16 18:00 J -38403891.90 -38403891.75 -38403891.59 0.2601 0.0485

Mercury -109854-05-20 06:14 J -38402611.31 -38402611.24 -38402611.17 0.2730 0.2107

Mercury -109848-05-29 03:50 J -38400410.43 -38400410.34 -38400410.25 0.2746 0.1640

Mercury -109845-11-18 23:31 J -38399140.61 -38399140.52 -38399140.43 0.2596 0.2114

Mercury -109841-05-22 00:57 J -38397860.56 -38397860.46 -38397860.36 0.2734 0.1115

Mercury -109838-11-11 14:38 J -38396591.95 -38396591.89 -38396591.84 0.2609 0.2401

Mercury -109835-05-31 22:19 J -38395659.60 -38395659.57 -38395659.54 0.2750 0.2613

Mercury -109828-05-24 19:40 J -38393109.80 -38393109.68 -38393109.57 0.2739 0.0157

Mercury -109825-11-13 19:26 J -38391840.84 -38391840.69 -38391840.55 0.2605 0.0820

Mercury -109815-05-27 14:09 J -38388359.01 -38388358.91 -38388358.80 0.2743 0.0861

Mercury -109812-11-17 00:28 J -38387089.63 -38387089.48 -38387089.33 0.2600 0.0799

Mercury -109808-05-20 11:02 J -38385809.12 -38385809.04 -38385808.96 0.2731 0.1911

Mercury -109802-05-30 08:52 J -38383608.22 -38383608.13 -38383608.05 0.2747 0.1839

Venus -109801-01-15 21:21 J -38383377.78 -38383377.61 -38383377.45 0.2554 0.0150

Mercury -109799-11-20 06:00 J -38382338.30 -38382338.25 -38382338.20 0.2596 0.2439

Mercury -109795-05-23 05:45 J -38381058.36 -38381058.26 -38381058.15 0.2735 0.0916

Mercury -109792-11-11 20:52 J -38379789.72 -38379789.63 -38379789.54 0.2609 0.2097

Mercury -109782-05-26 00:28 J -38376307.59 -38376307.48 -38376307.37 0.2739 0.0079

Mercury -109779-11-15 01:55 J -38375038.58 -38375038.42 -38375038.27 0.2604 0.0502

Mercury -109775-05-18 21:07 J -38373757.62 -38373757.62 -38373757.61 0.2727 0.2711

Mercury -109769-05-27 19:12 J -38371556.81 -38371556.70 -38371556.60 0.2743 0.1057

Mercury -109766-11-18 06:57 J -38370287.35 -38370287.21 -38370287.07 0.2600 0.1122

Mercury -109762-05-21 16:04 J -38369006.92 -38369006.83 -38369006.75 0.2731 0.1715

Mercury -109756-05-30 13:40 J -38366806.00 -38366805.93 -38366805.86 0.2747 0.2033

Mercury -109749-05-23 10:48 J -38364256.16 -38364256.05 -38364255.94 0.2735 0.0723

Mercury -109746-11-13 03:07 J -38362987.48 -38362987.37 -38362987.25 0.2608 0.1783

Mercury -109736-05-26 05:16 J -38359505.39 -38359505.28 -38359505.16 0.2740 0.0292

Mercury -109733-11-15 08:09 J -38358236.32 -38358236.16 -38358236.01 0.2604 0.0187

Mercury -109729-05-19 02:09 J -38356955.45 -38356955.41 -38356955.37 0.2727 0.2510

Mercury -109723-05-29 00:00 J -38354754.60 -38354754.50 -38354754.40 0.2744 0.1253

Mercury -109720-11-18 13:26 J -38353485.07 -38353484.94 -38353484.81 0.2599 0.1446

Mercury -109716-05-21 20:52 J -38352204.72 -38352204.63 -38352204.53 0.2732 0.1516

Mercury -109710-05-31 18:28 J -38350003.79 -38350003.73 -38350003.66 0.2748 0.2229

Mercury -109703-05-24 15:36 J -38347453.96 -38347453.85 -38347453.74 0.2736 0.0527

Mercury -109700-11-13 09:36 J -38346185.23 -38346185.10 -38346184.98 0.2608 0.1471

Mercury -109690-05-27 10:19 J -38342703.18 -38342703.07 -38342702.96 0.2740 0.0464

Mercury -109687-11-16 14:38 J -38341434.05 -38341433.89 -38341433.74 0.2603 0.0142

Mercury -109683-05-20 07:12 J -38340153.26 -38340153.20 -38340153.15 0.2728 0.2313

Mercury -109677-05-29 04:48 J -38337952.39 -38337952.30 -38337952.20 0.2744 0.1452

Mercury -109674-11-19 19:55 J -38336682.79 -38336682.67 -38336682.56 0.2599 0.1769

Venus -109672-07-17 17:45 J -38336076.87 -38336076.76 -38336076.65 0.2787 0.1901

Mercury -109670-05-23 01:55 J -38335402.52 -38335402.42 -38335402.32 0.2732 0.1314

Mercury -109664-05-31 23:31 J -38333201.57 -38333201.52 -38333201.47 0.2748 0.2426

Venus -109664-07-15 06:57 J -38333157.28 -38333157.21 -38333157.13 0.2787 0.2420

Mercury -109657-05-24 20:38 J -38330651.75 -38330651.64 -38330651.53 0.2737 0.0324

Mercury -109654-11-14 16:04 J -38329382.97 -38329382.83 -38329382.69 0.2607 0.1151

Mercury -109644-05-27 15:21 J -38325900.97 -38325900.86 -38325900.76 0.2741 0.0672

Mercury -109641-11-16 21:07 J -38324631.78 -38324631.62 -38324631.47 0.2602 0.0463

Mercury -109637-05-20 12:00 J -38323351.07 -38323351.00 -38323350.93 0.2728 0.2115

Mercury -109631-05-30 09:50 J -38321150.18 -38321150.09 -38321150.00 0.2745 0.1644

Mercury -109628-11-20 02:24 J -38319880.49 -38319880.40 -38319880.31 0.2598 0.2099

Mercury -109624-05-23 06:57 J -38318600.32 -38318600.21 -38318600.11 0.2733 0.1122

Mercury -109621-11-11 17:31 J -38317331.82 -38317331.77 -38317331.71 0.2611 0.2425

Mercury -109618-06-02 04:19 J -38316399.35 -38316399.32 -38316399.29 0.2749 0.2623

Mercury -109611-05-26 01:40 J -38313849.55 -38313849.43 -38313849.32 0.2737 0.0164

Mercury -109608-11-14 22:33 J -38312580.71 -38312580.56 -38312580.42 0.2606 0.0831

Mercury -109598-05-28 20:09 J -38309098.76 -38309098.66 -38309098.55 0.2741 0.0863

Mercury -109595-11-18 03:36 J -38307829.50 -38307829.35 -38307829.20 0.2602 0.0791

Mercury -109591-05-21 17:02 J -38306548.87 -38306548.79 -38306548.71 0.2729 0.1916

Mercury -109585-05-30 14:52 J -38304347.96 -38304347.88 -38304347.80 0.2745 0.1848

Mercury -109582-11-21 08:52 J -38303078.19 -38303078.13 -38303078.08 0.2598 0.2427

Mercury -109578-05-24 11:45 J -38301798.11 -38301798.01 -38301797.90 0.2733 0.0919

Mercury -109575-11-13 00:00 J -38300529.59 -38300529.50 -38300529.41 0.2610 0.2108

Mercury -109565-05-26 06:28 J -38297047.34 -38297047.23 -38297047.12 0.2738 0.0072

Mercury -109562-11-16 04:48 J -38295778.45 -38295778.30 -38295778.15 0.2606 0.0516

Venus -109558-01-16 00:43 J -38294621.63 -38294621.47 -38294621.31 0.2554 0.0553

Mercury -109558-05-20 03:07 J -38294497.37 -38294497.37 -38294497.36 0.2725 0.2716

Mercury -109552-05-29 01:12 J -38292296.56 -38292296.45 -38292296.35 0.2742 0.1067

Mercury -109549-11-18 09:50 J -38291027.23 -38291027.09 -38291026.95 0.2601 0.1111

Mercury -109545-05-21 22:04 J -38289746.67 -38289746.58 -38289746.50 0.2729 0.1717

Mercury -109539-05-31 19:40 J -38287545.75 -38287545.68 -38287545.61 0.2746 0.2043

Mercury -109532-05-24 16:48 J -38284995.91 -38284995.80 -38284995.70 0.2734 0.0724

Mercury -109529-11-13 06:14 J -38283727.35 -38283727.24 -38283727.13 0.2610 0.1803

Mercury -109519-05-27 11:31 J -38280245.14 -38280245.02 -38280244.91 0.2738 0.0294

Mercury -109516-11-16 11:16 J -38278976.19 -38278976.03 -38278975.88 0.2605 0.0204

Mercury -109512-05-20 08:09 J -38277695.20 -38277695.16 -38277695.12 0.2725 0.2520

Mercury -109506-05-30 06:00 J -38275494.35 -38275494.25 -38275494.15 0.2742 0.1258

Mercury -109503-11-19 16:19 J -38274224.95 -38274224.82 -38274224.69 0.2601 0.1433

Mercury -109499-05-23 02:52 J -38272944.47 -38272944.38 -38272944.29 0.2730 0.1518

Mercury -109493-06-01 00:28 J -38270743.54 -38270743.48 -38270743.41 0.2746 0.2242

Mercury -109486-05-25 21:36 J -38268193.71 -38268193.60 -38268193.49 0.2734 0.0524

Mercury -109483-11-14 12:43 J -38266925.10 -38266924.97 -38266924.85 0.2609 0.1485

Mercury -109473-05-27 16:19 J -38263442.93 -38263442.82 -38263442.71 0.2739 0.0471

Mercury -109470-11-17 17:31 J -38262173.92 -38262173.77 -38262173.61 0.2605 0.0122

Mercury -109466-05-21 12:57 J -38260893.01 -38260892.96 -38260892.90 0.2726 0.2322

Mercury -109460-05-30 11:02 J -38258692.14 -38258692.04 -38258691.95 0.2743 0.1459

Mercury -109457-11-19 22:48 J -38257422.67 -38257422.55 -38257422.44 0.2600 0.1757

Mercury -109453-05-23 07:55 J -38256142.27 -38256142.17 -38256142.08 0.2731 0.1325

Mercury -109447-06-02 05:31 J -38253941.32 -38253941.27 -38253941.22 0.2747 0.2434

Mercury -109440-05-26 02:38 J -38251391.50 -38251391.39 -38251391.28 0.2735 0.0327

Mercury -109437-11-14 18:57 J -38250122.84 -38250122.71 -38250122.57 0.2609 0.1173

Venus -109429-07-17 16:33 J -38247320.94 -38247320.81 -38247320.68 0.2787 0.1493

Mercury -109427-05-28 21:21 J -38246640.72 -38246640.61 -38246640.51 0.2739 0.0678

Mercury -109424-11-18 00:00 J -38245371.65 -38245371.50 -38245371.35 0.2604 0.0448

Mercury -109420-05-21 18:00 J -38244090.82 -38244090.75 -38244090.68 0.2727 0.2121

Mercury -109414-05-31 15:50 J -38241889.93 -38241889.84 -38241889.75 0.2743 0.1657

Mercury -109411-11-21 05:16 J -38240620.37 -38240620.28 -38240620.19 0.2600 0.2085

Mercury -109407-05-24 12:43 J -38239340.07 -38239339.97 -38239339.86 0.2731 0.1123

Mercury -109404-11-12 20:38 J -38238071.69 -38238071.64 -38238071.58 0.2613 0.2440

Mercury -109401-06-02 10:19 J -38237139.09 -38237139.07 -38237139.04 0.2747 0.2636

Mercury -109394-05-27 07:26 J -38234589.30 -38234589.19 -38234589.08 0.2736 0.0142

Mercury -109391-11-16 01:26 J -38233320.59 -38233320.44 -38233320.29 0.2608 0.0851

Mercury -109381-05-29 02:09 J -38229838.51 -38229838.41 -38229838.30 0.2740 0.0869

Mercury -109378-11-19 06:28 J -38228569.38 -38228569.23 -38228569.09 0.2604 0.0769

Mercury -109374-05-22 23:02 J -38227288.62 -38227288.54 -38227288.46 0.2727 0.1918

Mercury -109368-05-31 20:52 J -38225087.71 -38225087.63 -38225087.55 0.2744 0.1858

Mercury -109365-11-21 11:45 J -38223818.07 -38223818.01 -38223817.96 0.2599 0.2419

Mercury -109361-05-24 17:45 J -38222537.87 -38222537.76 -38222537.65 0.2732 0.0918

Mercury -109358-11-14 03:07 J -38221269.46 -38221269.37 -38221269.29 0.2612 0.2130

Mercury -109348-05-27 12:28 J -38217787.09 -38217786.98 -38217786.87 0.2736 0.0080

Mercury -109345-11-16 07:55 J -38216518.32 -38216518.17 -38216518.02 0.2608 0.0533

Mercury -109335-05-30 07:12 J -38213036.30 -38213036.20 -38213036.10 0.2740 0.1070

Mercury -109332-11-19 12:57 J -38211767.10 -38211766.96 -38211766.82 0.2603 0.1099

Mercury -109328-05-23 03:50 J -38210486.42 -38210486.34 -38210486.25 0.2728 0.1722

Mercury -109322-06-02 01:40 J -38208285.50 -38208285.43 -38208285.36 0.2744 0.2050

Venus -109315-01-16 04:19 J -38205865.47 -38205865.32 -38205865.17 0.2554 0.0939

Mercury -109315-05-25 22:48 J -38205735.66 -38205735.55 -38205735.45 0.2732 0.0723

Mercury -109312-11-14 09:21 J -38204467.21 -38204467.11 -38204467.00 0.2611 0.1812

Venus -109307-01-13 21:36 J -38202945.69 -38202945.60 -38202945.52 0.2554 0.2168

Mercury -109302-05-28 17:31 J -38200984.89 -38200984.77 -38200984.66 0.2737 0.0300

Mercury -109299-11-17 14:09 J -38199716.06 -38199715.91 -38199715.75 0.2607 0.0218

Mercury -109295-05-21 13:55 J -38198434.95 -38198434.92 -38198434.88 0.2724 0.2527

Mercury -109289-05-30 12:00 J -38196234.10 -38196234.00 -38196233.90 0.2741 0.1269

Mercury -109286-11-20 19:12 J -38194964.83 -38194964.70 -38194964.57 0.2602 0.1423

Mercury -109282-05-24 08:52 J -38193684.22 -38193684.13 -38193684.04 0.2728 0.1521

Mercury -109276-06-02 06:28 J -38191483.29 -38191483.23 -38191483.16 0.2745 0.2251

Mercury -109269-05-26 03:36 J -38188933.46 -38188933.35 -38188933.24 0.2733 0.0520

Mercury -109266-11-15 15:50 J -38187664.97 -38187664.84 -38187664.72 0.2611 0.1506

Mercury -109256-05-28 22:19 J -38184182.68 -38184182.57 -38184182.46 0.2737 0.0479

Mercury -109253-11-17 20:38 J -38182913.79 -38182913.64 -38182913.49 0.2606 0.0114

Mercury -109249-05-21 18:57 J -38181632.77 -38181632.71 -38181632.65 0.2724 0.2325

Mercury -109243-05-31 17:02 J -38179431.89 -38179431.79 -38179431.70 0.2741 0.1468

Mercury -109240-11-21 01:40 J -38178162.54 -38178162.43 -38178162.31 0.2602 0.1751

Mercury -109236-05-24 13:55 J -38176882.02 -38176881.92 -38176881.83 0.2729 0.1325

Mercury -109230-06-03 11:31 J -38174681.07 -38174681.02 -38174680.97 0.2745 0.2449

Mercury -109223-05-27 08:38 J -38172131.25 -38172131.14 -38172131.03 0.2733 0.0329

Mercury -109220-11-15 22:04 J -38170862.72 -38170862.58 -38170862.44 0.2610 0.1185

Mercury -109210-05-30 03:21 J -38167380.47 -38167380.36 -38167380.26 0.2738 0.0683

Mercury -109207-11-19 02:52 J -38166111.53 -38166111.38 -38166111.22 0.2606 0.0432

Mercury -109203-05-23 00:00 J -38164830.57 -38164830.50 -38164830.43 0.2725 0.2125

Mercury -109197-05-31 21:50 J -38162629.67 -38162629.59 -38162629.50 0.2742 0.1668

Mercury -109194-11-22 08:09 J -38161360.25 -38161360.16 -38161360.07 0.2601 0.2080

Mercury -109190-05-25 18:43 J -38160079.82 -38160079.72 -38160079.62 0.2729 0.1119
 Mercury -109187-11-13 23:45 J -38158811.56 -38158811.51 -38158811.46 0.2614 0.2465
 Venus -109186-07-18 15:21 J -38158565.00 -38158564.86 -38158564.72 0.2787 0.1092
 Mercury -109184-06-03 16:19 J -38157878.84 -38157878.82 -38157878.79 0.2746 0.2648
 Mercury -109177-05-27 13:26 J -38155329.05 -38155328.94 -38155328.83 0.2734 0.0135
 Mercury -109174-11-17 04:19 J -38154060.46 -38154060.32 -38154060.17 0.2610 0.0875
 Mercury -109164-05-30 08:09 J -38150578.26 -38150578.16 -38150578.05 0.2738 0.0878
 Mercury -109161-11-19 09:21 J -38149309.25 -38149309.11 -38149308.96 0.2605 0.0762
 Mercury -109157-05-23 04:48 J -38148028.37 -38148028.30 -38148028.22 0.2726 0.1927
 Mercury -109151-06-02 02:52 J -38145827.46 -38145827.38 -38145827.30 0.2742 0.1865
 Mercury -109148-11-22 14:38 J -38144557.95 -38144557.89 -38144557.83 0.2601 0.2408
 Mercury -109144-05-25 23:45 J -38143277.62 -38143277.51 -38143277.41 0.2730 0.0919
 Mercury -109141-11-14 06:14 J -38142009.33 -38142009.24 -38142009.16 0.2614 0.2148
 Mercury -109131-05-28 18:28 J -38138526.84 -38138526.73 -38138526.62 0.2734 0.0086
 Mercury -109128-11-17 10:48 J -38137258.20 -38137258.05 -38137257.90 0.2609 0.0549
 Mercury -109118-05-31 13:12 J -38133776.05 -38133775.95 -38133775.85 0.2739 0.1081
 Mercury -109115-11-20 15:50 J -38132506.98 -38132506.84 -38132506.70 0.2605 0.1081
 Mercury -109111-05-24 09:50 J -38131226.18 -38131226.09 -38131226.00 0.2726 0.1722
 Mercury -109105-06-02 07:40 J -38129025.25 -38129025.18 -38129025.11 0.2743 0.2064
 Mercury -109098-05-27 04:33 J -38126475.41 -38126475.31 -38126475.20 0.2731 0.0724
 Mercury -109095-11-15 12:28 J -38125207.09 -38125206.98 -38125206.87 0.2613 0.1835
 Mercury -109085-05-28 23:31 J -38121724.64 -38121724.52 -38121724.41 0.2735 0.0307
 Mercury -109082-11-18 17:16 J -38120455.93 -38120455.78 -38120455.63 0.2609 0.0224
 Mercury -109078-05-22 19:55 J -38119174.71 -38119174.67 -38119174.63 0.2722 0.2528
 Venus -109072-01-16 07:55 J -38117109.31 -38117109.17 -38117109.03 0.2554 0.1346
 Mercury -109072-05-31 18:00 J -38116973.85 -38116973.75 -38116973.65 0.2739 0.1278
 Mercury -109069-11-20 22:19 J -38115704.70 -38115704.57 -38115704.44 0.2604 0.1413
 Mercury -109065-05-24 14:52 J -38114423.97 -38114423.88 -38114423.79 0.2727 0.1521
 Venus -109064-01-14 00:57 J -38114189.58 -38114189.46 -38114189.35 0.2555 0.1802
 Mercury -109059-06-03 12:43 J -38112223.03 -38112222.97 -38112222.91 0.2743 0.2266

Mercury -109052-05-27 09:36 J -38109673.21 -38109673.10 -38109672.99 0.2731 0.0514

Mercury -109049-11-15 18:57 J -38108404.84 -38108404.71 -38108404.59 0.2613 0.1514

Mercury -109039-05-30 04:19 J -38104922.43 -38104922.32 -38104922.21 0.2735 0.0481

Mercury -109036-11-18 23:31 J -38103653.67 -38103653.52 -38103653.36 0.2608 0.0114

Mercury -109032-05-23 00:57 J -38102372.52 -38102372.46 -38102372.40 0.2723 0.2328

Mercury -109026-06-01 23:02 J -38100171.64 -38100171.54 -38100171.45 0.2740 0.1479

Mercury -109023-11-22 04:33 J -38098902.42 -38098902.31 -38098902.19 0.2604 0.1739

Mercury -109019-05-25 19:40 J -38097621.77 -38097621.68 -38097621.58 0.2727 0.1320

Mercury -109013-06-03 17:31 J -38095420.82 -38095420.77 -38095420.72 0.2743 0.2460

Mercury -109006-05-28 14:38 J -38092871.00 -38092870.89 -38092870.78 0.2732 0.0325

Mercury -109003-11-17 01:12 J -38091602.59 -38091602.45 -38091602.32 0.2612 0.1204

109TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 109th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-108993-05-30 09:21 J	-38088120.22	-38088120.11	-38088120.01	0.2736	0.0694		
Mercury	-108990-11-20 06:00 J	-38086851.40	-38086851.25	-38086851.10	0.2608	0.0425		
Mercury	-108986-05-24 06:00 J	-38085570.32	-38085570.25	-38085570.19	0.2723	0.2130		
Mercury	-108980-06-02 03:50 J	-38083369.43	-38083369.34	-38083369.25	0.2740	0.1673		
Mercury	-108977-11-22 11:02 J	-38082100.13	-38082100.04	-38082099.94	0.2603	0.2072		
Mercury	-108973-05-26 00:43 J	-38080819.57	-38080819.47	-38080819.37	0.2728	0.1117		

Mercury -108970-11-15 02:52 J -38079551.42 -38079551.38 -38079551.33 0.2616 0.2478

Mercury -108967-06-04 22:19 J -38078618.59 -38078618.57 -38078618.54 0.2744 0.2659

Mercury -108960-05-28 19:26 J -38076068.80 -38076068.69 -38076068.58 0.2732 0.0126

Mercury -108957-11-17 07:26 J -38074800.33 -38074800.19 -38074800.04 0.2611 0.0883

Mercury -108947-05-31 14:09 J -38071318.01 -38071317.91 -38071317.80 0.2736 0.0887

Mercury -108944-11-20 12:28 J -38070049.13 -38070048.98 -38070048.84 0.2607 0.0746

Venus -108943-07-18 13:55 J -38069809.06 -38069808.92 -38069808.77 0.2787 0.0681

Mercury -108940-05-24 10:48 J -38068768.13 -38068768.05 -38068767.97 0.2724 0.1924

Mercury -108934-06-03 08:52 J -38066567.21 -38066567.13 -38066567.05 0.2741 0.1879

Mercury -108931-11-23 17:31 J -38065297.83 -38065297.77 -38065297.71 0.2602 0.2400

Mercury -108927-05-27 05:45 J -38064017.37 -38064017.26 -38064017.16 0.2728 0.0918

Mercury -108924-11-15 09:07 J -38062749.20 -38062749.12 -38062749.03 0.2616 0.2168

Mercury -108914-05-30 00:28 J -38059266.59 -38059266.48 -38059266.37 0.2733 0.0095

Mercury -108911-11-18 13:55 J -38057998.07 -38057997.92 -38057997.77 0.2611 0.0560

Mercury -108901-05-31 19:12 J -38054515.81 -38054515.70 -38054515.60 0.2737 0.1091

Mercury -108898-11-21 18:57 J -38053246.85 -38053246.71 -38053246.57 0.2606 0.1081

Mercury -108894-05-25 15:50 J -38051965.93 -38051965.84 -38051965.75 0.2724 0.1722

Mercury -108888-06-03 13:40 J -38049765.00 -38049764.93 -38049764.86 0.2741 0.2079

Mercury -108881-05-27 10:33 J -38047215.16 -38047215.06 -38047214.95 0.2729 0.0715

Mercury -108878-11-16 15:36 J -38045946.96 -38045946.85 -38045946.74 0.2615 0.1849

Mercury -108868-05-30 05:16 J -38042464.39 -38042464.28 -38042464.17 0.2733 0.0301

Mercury -108865-11-18 20:24 J -38041195.81 -38041195.65 -38041195.50 0.2610 0.0248

Mercury -108861-05-23 01:55 J -38039914.46 -38039914.42 -38039914.38 0.2720 0.2535

Mercury -108855-06-02 00:00 J -38037713.60 -38037713.50 -38037713.40 0.2737 0.1288

Mercury -108852-11-22 01:12 J -38036444.58 -38036444.45 -38036444.32 0.2606 0.1400

Mercury -108848-05-25 20:52 J -38035163.73 -38035163.63 -38035163.54 0.2725 0.1520

Mercury -108842-06-04 18:43 J -38032962.78 -38032962.72 -38032962.66 0.2741 0.2279

Mercury -108835-05-28 15:36 J -38030412.96 -38030412.85 -38030412.74 0.2729 0.0510

Mercury -108832-11-16 21:50 J -38029144.71 -38029144.59 -38029144.47 0.2614 0.1537

Venus -108829-01-17 11:31 J -38028353.14 -38028353.02 -38028352.90 0.2555 0.1738

Mercury -108822-05-31 10:19 J -38025662.18 -38025662.07 -38025661.96 0.2734 0.0494

Venus -108821-01-15 04:33 J -38025433.44 -38025433.31 -38025433.17 0.2555 0.1387

Mercury -108819-11-20 02:38 J -38024393.54 -38024393.39 -38024393.24 0.2610 0.0083

Mercury -108815-05-24 06:57 J -38023112.27 -38023112.21 -38023112.16 0.2721 0.2331

Mercury -108809-06-02 05:02 J -38020911.39 -38020911.29 -38020911.20 0.2738 0.1491

Mercury -108806-11-23 07:40 J -38019642.30 -38019642.18 -38019642.07 0.2605 0.1731

Mercury -108802-05-27 01:40 J -38018361.53 -38018361.43 -38018361.33 0.2726 0.1319

Mercury -108796-06-04 23:31 J -38016160.56 -38016160.52 -38016160.47 0.2742 0.2474

Mercury -108789-05-28 20:24 J -38013610.76 -38013610.65 -38013610.53 0.2730 0.0327

Mercury -108786-11-18 04:19 J -38012342.46 -38012342.32 -38012342.19 0.2614 0.1214

Mercury -108776-05-31 15:07 J -38008859.97 -38008859.87 -38008859.76 0.2734 0.0700

Mercury -108773-11-20 08:52 J -38007591.28 -38007591.13 -38007590.97 0.2609 0.0410

Mercury -108769-05-24 11:45 J -38006310.08 -38006310.01 -38006309.94 0.2722 0.2128

Mercury -108763-06-03 09:50 J -38004109.18 -38004109.09 -38004109.00 0.2738 0.1689

Mercury -108760-11-23 13:55 J -38002840.01 -38002839.92 -38002839.83 0.2605 0.2052

Mercury -108756-05-27 06:43 J -38001559.32 -38001559.22 -38001559.12 0.2726 0.1115

Mercury -108753-11-15 06:00 J -38000291.29 -38000291.25 -38000291.20 0.2618 0.2493

Mercury -108750-06-06 04:33 J -37999358.34 -37999358.31 -37999358.29 0.2742 0.2677

Mercury -108743-05-30 01:26 J -37996808.55 -37996808.44 -37996808.33 0.2731 0.0107

Mercury -108740-11-18 10:33 J -37995540.20 -37995540.06 -37995539.91 0.2613 0.0896

Mercury -108730-06-01 20:09 J -37992057.77 -37992057.66 -37992057.56 0.2735 0.0895

Mercury -108727-11-21 15:21 J -37990789.00 -37990788.86 -37990788.71 0.2609 0.0739

Mercury -108723-05-25 16:48 J -37989507.88 -37989507.80 -37989507.72 0.2722 0.1924

Mercury -108717-06-03 14:52 J -37987306.96 -37987306.88 -37987306.80 0.2739 0.1891

Mercury -108714-11-24 20:24 J -37986037.71 -37986037.65 -37986037.59 0.2604 0.2386

Mercury -108710-05-28 11:31 J -37984757.12 -37984757.02 -37984756.91 0.2727 0.0918

Mercury -108707-11-16 12:28 J -37983489.06 -37983488.98 -37983488.90 0.2617 0.2179

Venus -108700-07-18 12:43 J -37981053.12 -37981052.97 -37981052.82 0.2786 0.0246

Mercury -108697-05-30 06:28 J -37980006.35 -37980006.23 -37980006.12 0.2731 0.0135

Mercury -108694-11-19 17:02 J -37978737.94 -37978737.79 -37978737.64 0.2613 0.0569

Mercury -108684-06-02 01:12 J -37975255.56 -37975255.45 -37975255.35 0.2735 0.1103

Mercury -108681-11-21 21:50 J -37973986.73 -37973986.59 -37973986.45 0.2608 0.1061

Mercury -108677-05-25 21:50 J -37972705.68 -37972705.59 -37972705.51 0.2723 0.1720

Mercury -108671-06-04 19:40 J -37970504.75 -37970504.68 -37970504.61 0.2739 0.2091

Mercury -108664-05-28 16:33 J -37967954.92 -37967954.81 -37967954.70 0.2727 0.0707

Mercury -108661-11-16 18:43 J -37966686.83 -37966686.72 -37966686.61 0.2617 0.1863

Mercury -108651-05-31 11:16 J -37963204.14 -37963204.03 -37963203.92 0.2731 0.0307

Mercury -108648-11-19 23:16 J -37961935.68 -37961935.53 -37961935.38 0.2612 0.0254

Mercury -108644-05-24 07:55 J -37960654.21 -37960654.17 -37960654.14 0.2719 0.2533

Mercury -108638-06-03 06:00 J -37958453.35 -37958453.25 -37958453.15 0.2736 0.1303

Mercury -108635-11-23 04:19 J -37957184.45 -37957184.32 -37957184.19 0.2607 0.1396

Mercury -108631-05-27 02:38 J -37955903.48 -37955903.39 -37955903.29 0.2723 0.1518

Mercury -108625-06-05 00:43 J -37953702.53 -37953702.47 -37953702.42 0.2740 0.2292

Mercury -108618-05-29 21:36 J -37951152.71 -37951152.60 -37951152.49 0.2728 0.0507

Mercury -108615-11-18 00:57 J -37949884.58 -37949884.46 -37949884.33 0.2616 0.1546

Mercury -108605-05-31 16:19 J -37946401.93 -37946401.82 -37946401.71 0.2732 0.0505

Mercury -108602-11-21 05:45 J -37945133.42 -37945133.26 -37945133.11 0.2611 0.0094

Mercury -108598-05-25 12:43 J -37943852.02 -37943851.97 -37943851.91 0.2719 0.2332

Mercury -108592-06-03 11:02 J -37941651.14 -37941651.04 -37941650.95 0.2736 0.1504

Mercury -108589-11-23 10:33 J -37940382.18 -37940382.06 -37940381.95 0.2607 0.1716

Venus -108586-01-17 14:52 J -37939596.97 -37939596.88 -37939596.79 0.2555 0.2118

Mercury -108585-05-27 07:40 J -37939101.28 -37939101.18 -37939101.08 0.2724 0.1313

Mercury -108579-06-06 05:31 J -37936900.31 -37936900.27 -37936900.23 0.2740 0.2493

Venus -108578-01-15 08:09 J -37936677.31 -37936677.16 -37936677.01 0.2556 0.1021

Mercury -108572-05-30 02:24 J -37934350.51 -37934350.40 -37934350.29 0.2728 0.0309

Mercury -108569-11-18 07:26 J -37933082.33 -37933082.19 -37933082.06 0.2616 0.1231

Mercury -108559-06-01 21:07 J -37929599.72 -37929599.62 -37929599.51 0.2732 0.0713

Mercury -108556-11-21 12:00 J -37928331.15 -37928331.00 -37928330.85 0.2611 0.0398

Mercury -108552-05-25 17:45 J -37927049.83 -37927049.76 -37927049.69 0.2720 0.2128

Mercury -108546-06-04 15:50 J -37924848.92 -37924848.84 -37924848.75 0.2737 0.1703

Mercury -108543-11-24 17:02 J -37923579.89 -37923579.79 -37923579.70 0.2606 0.2051
 Mercury -108539-05-28 12:43 J -37922299.08 -37922298.97 -37922298.87 0.2724 0.1117
 Mercury -108536-11-16 09:07 J -37921031.16 -37921031.12 -37921031.08 0.2620 0.2513
 Mercury -108533-06-06 10:33 J -37920098.08 -37920098.06 -37920098.05 0.2741 0.2695
 Mercury -108526-05-31 07:26 J -37917548.30 -37917548.19 -37917548.08 0.2729 0.0100
 Mercury -108523-11-19 13:40 J -37916280.07 -37916279.93 -37916279.79 0.2615 0.0910
 Mercury -108513-06-02 02:09 J -37912797.52 -37912797.41 -37912797.31 0.2733 0.0908
 Mercury -108510-11-22 18:14 J -37911528.88 -37911528.74 -37911528.59 0.2610 0.0721
 Mercury -108506-05-26 22:48 J -37910247.63 -37910247.55 -37910247.48 0.2721 0.1927
 Mercury -108500-06-04 20:52 J -37908046.71 -37908046.63 -37908046.56 0.2737 0.1907
 Mercury -108497-11-24 23:16 J -37906777.59 -37906777.53 -37906777.47 0.2606 0.2378
 Mercury -108493-05-28 17:31 J -37905496.87 -37905496.77 -37905496.66 0.2725 0.0907
 Mercury -108490-11-17 15:36 J -37904228.93 -37904228.85 -37904228.77 0.2619 0.2196
 Mercury -108480-05-31 12:14 J -37900746.10 -37900745.99 -37900745.87 0.2729 0.0152
 Mercury -108477-11-19 19:55 J -37899477.82 -37899477.67 -37899477.52 0.2614 0.0594
 Mercury -108467-06-03 06:57 J -37895995.31 -37895995.21 -37895995.10 0.2733 0.1117
 Mercury -108464-11-23 00:43 J -37894726.61 -37894726.47 -37894726.33 0.2610 0.1048
 Mercury -108460-05-27 03:36 J -37893445.43 -37893445.35 -37893445.26 0.2721 0.1718
 Venus -108457-07-18 11:16 J -37892297.19 -37892297.03 -37892296.88 0.2786 0.0178
 Mercury -108454-06-06 01:40 J -37891244.50 -37891244.43 -37891244.36 0.2738 0.2106
 Mercury -108447-05-29 22:33 J -37888694.67 -37888694.56 -37888694.45 0.2726 0.0702
 Mercury -108444-11-17 21:50 J -37887426.69 -37887426.59 -37887426.48 0.2619 0.1875
 Mercury -108434-06-01 17:16 J -37883943.89 -37883943.78 -37883943.67 0.2730 0.0313
 Mercury -108431-11-21 02:24 J -37882675.55 -37882675.40 -37882675.25 0.2614 0.0264
 Mercury -108427-05-25 13:40 J -37881393.97 -37881393.93 -37881393.89 0.2717 0.2536
 Mercury -108421-06-03 12:00 J -37879193.10 -37879193.00 -37879192.90 0.2734 0.1312
 Mercury -108418-11-24 07:12 J -37877924.33 -37877924.20 -37877924.07 0.2609 0.1377
 Mercury -108414-05-28 08:38 J -37876643.23 -37876643.14 -37876643.05 0.2722 0.1513
 Mercury -108408-06-06 06:43 J -37874442.28 -37874442.22 -37874442.17 0.2738 0.2310
 Mercury -108401-05-30 03:36 J -37871892.46 -37871892.35 -37871892.24 0.2726 0.0502

Mercury -108398-11-19 04:04 J -37870624.45 -37870624.33 -37870624.21 0.2618 0.1559

Mercury -108388-06-01 22:19 J -37867141.68 -37867141.57 -37867141.46 0.2730 0.0517

Mercury -108385-11-21 08:52 J -37865873.29 -37865873.13 -37865872.98 0.2613 0.0096

Mercury -108381-05-25 18:43 J -37864591.78 -37864591.72 -37864591.66 0.2717 0.2328

Mercury -108375-06-04 17:02 J -37862390.89 -37862390.79 -37862390.70 0.2735 0.1520

Mercury -108372-11-24 13:40 J -37861122.05 -37861121.93 -37861121.82 0.2609 0.1716

Mercury -108368-05-28 13:40 J -37859841.03 -37859840.93 -37859840.83 0.2722 0.1309

Mercury -108362-06-07 11:31 J -37857640.06 -37857640.02 -37857639.98 0.2739 0.2509

Mercury -108355-05-31 08:24 J -37855090.26 -37855090.15 -37855090.04 0.2727 0.0297

Mercury -108352-11-19 10:33 J -37853822.20 -37853822.06 -37853821.93 0.2617 0.1241

Venus -108343-01-17 18:28 J -37850840.75 -37850840.73 -37850840.71 0.2556 0.2527

Mercury -108342-06-03 03:07 J -37850339.47 -37850339.37 -37850339.26 0.2731 0.0722

Mercury -108339-11-22 15:07 J -37849071.02 -37849070.87 -37849070.72 0.2613 0.0390

Venus -108335-01-15 11:45 J -37847921.17 -37847921.01 -37847920.85 0.2556 0.0620

Mercury -108335-05-26 23:45 J -37847789.58 -37847789.51 -37847789.44 0.2718 0.2127

Mercury -108329-06-04 21:50 J -37845588.67 -37845588.59 -37845588.50 0.2735 0.1719

Mercury -108326-11-25 19:55 J -37844319.76 -37844319.67 -37844319.58 0.2608 0.2042

Mercury -108322-05-29 18:28 J -37843038.83 -37843038.73 -37843038.62 0.2723 0.1105

Mercury -108319-11-17 12:28 J -37841771.02 -37841770.98 -37841770.95 0.2622 0.2526

Mercury -108316-06-07 16:33 J -37840837.83 -37840837.81 -37840837.80 0.2739 0.2713

Mercury -108309-05-31 13:26 J -37838288.05 -37838287.94 -37838287.83 0.2727 0.0097

Mercury -108306-11-20 16:48 J -37837019.95 -37837019.80 -37837019.66 0.2617 0.0926

Mercury -108296-06-03 08:09 J -37833537.27 -37833537.16 -37833537.06 0.2731 0.0921

Mercury -108293-11-22 21:21 J -37832268.76 -37832268.61 -37832268.46 0.2612 0.0711

Mercury -108289-05-27 04:33 J -37830987.39 -37830987.31 -37830987.23 0.2719 0.1919

Mercury -108283-06-06 02:52 J -37828786.46 -37828786.38 -37828786.31 0.2736 0.1925

Mercury -108280-11-26 02:24 J -37827517.46 -37827517.40 -37827517.34 0.2607 0.2376

Mercury -108276-05-29 23:31 J -37826236.63 -37826236.52 -37826236.41 0.2723 0.0897

Mercury -108273-11-17 18:43 J -37824968.80 -37824968.72 -37824968.64 0.2621 0.2208

Mercury -108263-06-01 18:14 J -37821485.85 -37821485.74 -37821485.62 0.2728 0.0152

Mercury -108260-11-20 23:02 J -37820217.69 -37820217.54 -37820217.39 0.2616 0.0602
 Mercury -108250-06-04 12:57 J -37816735.06 -37816734.96 -37816734.85 0.2732 0.1129
 Mercury -108247-11-24 03:50 J -37815466.49 -37815466.34 -37815466.20 0.2611 0.1041
 Mercury -108243-05-28 09:35 J -37814185.19 -37814185.10 -37814185.01 0.2719 0.1716
 Mercury -108237-06-06 07:40 J -37811984.25 -37811984.18 -37811984.11 0.2736 0.2122
 Mercury -108230-05-31 04:33 J -37809434.42 -37809434.31 -37809434.20 0.2724 0.0696
 Mercury -108227-11-19 00:57 J -37808166.56 -37808166.46 -37808166.36 0.2620 0.1896
 Mercury -108217-06-01 23:16 J -37804683.64 -37804683.53 -37804683.42 0.2728 0.0324
 Venus -108214-07-19 09:50 J -37803541.24 -37803541.09 -37803540.94 0.2785 0.0621
 Mercury -108214-11-22 05:31 J -37803415.43 -37803415.27 -37803415.12 0.2616 0.0284
 Mercury -108210-05-26 19:40 J -37802133.72 -37802133.68 -37802133.64 0.2715 0.2533
 Mercury -108204-06-04 18:00 J -37799932.85 -37799932.75 -37799932.65 0.2732 0.1329
 Mercury -108201-11-24 10:04 J -37798664.21 -37798664.08 -37798663.95 0.2611 0.1374
 Mercury -108197-05-28 14:38 J -37797382.99 -37797382.89 -37797382.80 0.2720 0.1509
 Mercury -108191-06-07 12:43 J -37795182.03 -37795181.97 -37795181.92 0.2737 0.2329
 Mercury -108184-05-31 09:21 J -37792632.22 -37792632.11 -37792632.00 0.2724 0.0497
 Mercury -108181-11-19 07:11 J -37791364.32 -37791364.20 -37791364.08 0.2620 0.1575
 Mercury -108171-06-03 04:19 J -37787881.43 -37787881.32 -37787881.21 0.2729 0.0538
 Mercury -108168-11-22 11:45 J -37786613.16 -37786613.01 -37786612.86 0.2615 0.0049
 Mercury -108164-05-27 00:43 J -37785331.53 -37785331.47 -37785331.42 0.2716 0.2327
 Mercury -108158-06-05 22:48 J -37783130.64 -37783130.55 -37783130.45 0.2733 0.1537
 Mercury -108155-11-25 16:33 J -37781861.93 -37781861.81 -37781861.70 0.2610 0.1701
 Mercury -108151-05-29 19:40 J -37780580.78 -37780580.68 -37780580.59 0.2720 0.1302
 Mercury -108145-06-07 17:31 J -37778379.81 -37778379.77 -37778379.73 0.2737 0.2531
 Mercury -108138-06-01 14:24 J -37775830.01 -37775829.90 -37775829.79 0.2725 0.0279
 Mercury -108135-11-20 13:40 J -37774562.07 -37774561.93 -37774561.80 0.2619 0.1253
 Mercury -108125-06-03 09:07 J -37771079.23 -37771079.12 -37771079.01 0.2729 0.0730
 Mercury -108122-11-23 18:00 J -37769810.90 -37769810.75 -37769810.59 0.2614 0.0381
 Mercury -108118-05-28 05:31 J -37768529.34 -37768529.27 -37768529.20 0.2716 0.2119
 Mercury -108112-06-06 03:50 J -37766328.42 -37766328.34 -37766328.25 0.2733 0.1736

Mercury -108109-11-25 22:48 J -37765059.64 -37765059.55 -37765059.45 0.2610 0.2036

Mercury -108105-05-30 00:28 J -37763778.58 -37763778.48 -37763778.37 0.2721 0.1093

Mercury -108102-11-18 15:35 J -37762510.88 -37762510.85 -37762510.81 0.2624 0.2530

Mercury -108099-06-08 22:19 J -37761577.57 -37761577.57 -37761577.56 0.2738 0.2733

Venus -108092-01-15 15:21 J -37759165.03 -37759164.86 -37759164.70 0.2557 0.0247

Mercury -108092-06-01 19:26 J -37759027.81 -37759027.69 -37759027.58 0.2725 0.0108

Mercury -108089-11-20 19:55 J -37757759.81 -37757759.67 -37757759.53 0.2619 0.0929

Mercury -108079-06-04 14:09 J -37754277.02 -37754276.91 -37754276.81 0.2730 0.0940

Mercury -108076-11-24 00:28 J -37753008.63 -37753008.48 -37753008.33 0.2614 0.0705

Mercury -108072-05-28 10:33 J -37751727.14 -37751727.06 -37751726.98 0.2717 0.1914

Mercury -108066-06-07 08:38 J -37749526.21 -37749526.14 -37749526.06 0.2734 0.1940

Mercury -108063-11-27 05:16 J -37748257.34 -37748257.28 -37748257.22 0.2609 0.2366

Mercury -108059-05-31 05:31 J -37746976.38 -37746976.27 -37746976.17 0.2721 0.0889

Mercury -108056-11-18 21:50 J -37745708.67 -37745708.59 -37745708.51 0.2623 0.2222

Mercury -108046-06-03 00:14 J -37742225.60 -37742225.49 -37742225.38 0.2726 0.0143

Mercury -108043-11-22 02:09 J -37740957.56 -37740957.41 -37740957.26 0.2618 0.0609

Mercury -108033-06-04 18:57 J -37737474.81 -37737474.71 -37737474.61 0.2730 0.1143

Mercury -108030-11-25 06:57 J -37736206.36 -37736206.21 -37736206.07 0.2613 0.1039

Mercury -108026-05-29 15:35 J -37734924.94 -37734924.85 -37734924.77 0.2717 0.1706

Mercury -108020-06-07 13:40 J -37732724.00 -37732723.93 -37732723.86 0.2735 0.2143

Mercury -108013-05-31 10:33 J -37730174.17 -37730174.06 -37730173.96 0.2722 0.0691

Mercury -108010-11-20 04:04 J -37728906.43 -37728906.33 -37728906.22 0.2622 0.1904

108TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 108th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-108000-06-03 05:16 J	-37725423.39	-37725423.28	-37725423.17	0.2726	0.0338		
Mercury	-107997-11-22 08:38 J	-37724155.30	-37724155.14	-37724154.99	0.2617	0.0297		
Mercury	-107993-05-27 01:26 J	-37722873.47	-37722873.44	-37722873.40	0.2713	0.2531		
Mercury	-107987-06-06 00:00 J	-37720672.60	-37720672.50	-37720672.40	0.2731	0.1347		
Mercury	-107984-11-25 13:11 J	-37719404.08	-37719403.95	-37719403.82	0.2613	0.1365		
Mercury	-107980-05-29 20:38 J	-37718122.74	-37718122.64	-37718122.55	0.2718	0.1501		
Mercury	-107974-06-08 18:43 J	-37715921.78	-37715921.72	-37715921.67	0.2735	0.2350		
Venus	-107971-07-19 08:24 J	-37714785.29	-37714785.15	-37714785.01	0.2784	0.1045		
Mercury	-107967-06-01 15:21 J	-37713371.97	-37713371.86	-37713371.75	0.2722	0.0474		
Mercury	-107964-11-20 10:19 J	-37712104.19	-37712104.07	-37712103.95	0.2622	0.1588		
Mercury	-107954-06-04 10:04 J	-37708621.19	-37708621.08	-37708620.97	0.2727	0.0551		
Mercury	-107951-11-23 14:52 J	-37707353.03	-37707352.88	-37707352.73	0.2617	0.0058		
Mercury	-107947-05-28 06:28 J	-37706071.28	-37706071.23	-37706071.17	0.2714	0.2324		
Mercury	-107941-06-06 04:48 J	-37703870.39	-37703870.30	-37703870.20	0.2731	0.1555		
Mercury	-107938-11-26 19:26 J	-37702601.80	-37702601.69	-37702601.57	0.2612	0.1699		
Mercury	-107934-05-31 01:26 J	-37701320.54	-37701320.44	-37701320.34	0.2718	0.1291		
Mercury	-107928-06-08 23:31 J	-37699119.56	-37699119.52	-37699119.48	0.2735	0.2551		
Mercury	-107921-06-01 20:24 J	-37696569.76	-37696569.65	-37696569.54	0.2723	0.0270		
Mercury	-107918-11-21 16:48 J	-37695301.93	-37695301.80	-37695301.67	0.2621	0.1262		
Mercury	-107908-06-04 15:07 J	-37691818.98	-37691818.87	-37691818.76	0.2727	0.0751		
Mercury	-107905-11-23 21:07 J	-37690550.77	-37690550.62	-37690550.47	0.2616	0.0370		
Mercury	-107901-05-28 11:31 J	-37689269.09	-37689269.02	-37689268.95	0.2715	0.2113		
Mercury	-107895-06-07 09:50 J	-37687068.17	-37687068.09	-37687068.01	0.2732	0.1756		
Mercury	-107892-11-27 01:55 J	-37685799.52	-37685799.42	-37685799.33	0.2611	0.2028		
Mercury	-107888-05-31 06:28 J	-37684518.33	-37684518.23	-37684518.13	0.2719	0.1087		

Mercury -107885-11-18 18:43 J -37683250.75 -37683250.72 -37683250.68 0.2625 0.2548

Mercury -107875-06-03 01:11 J -37679767.56 -37679767.45 -37679767.33 0.2723 0.0118

Mercury -107872-11-21 23:02 J -37678499.68 -37678499.54 -37678499.40 0.2620 0.0943

Mercury -107862-06-05 20:09 J -37675016.77 -37675016.66 -37675016.56 0.2728 0.0957

Mercury -107859-11-25 03:35 J -37673748.50 -37673748.35 -37673748.21 0.2616 0.0700

Mercury -107855-05-29 16:33 J -37672466.89 -37672466.81 -37672466.73 0.2715 0.1904

Venus -107849-01-16 18:57 J -37670408.87 -37670408.71 -37670408.54 0.2558 0.0157

Mercury -107849-06-07 14:52 J -37670265.96 -37670265.88 -37670265.81 0.2732 0.1964

Mercury -107846-11-28 08:09 J -37668997.22 -37668997.16 -37668997.09 0.2611 0.2363

Mercury -107842-06-01 11:31 J -37667716.13 -37667716.02 -37667715.92 0.2720 0.0883

Mercury -107839-11-20 01:11 J -37666448.53 -37666448.45 -37666448.38 0.2625 0.2228

Mercury -107829-06-03 06:14 J -37662965.35 -37662965.24 -37662965.13 0.2724 0.0143

Mercury -107826-11-23 05:16 J -37661697.42 -37661697.28 -37661697.13 0.2620 0.0619

Mercury -107816-06-06 00:57 J -37658214.56 -37658214.46 -37658214.36 0.2728 0.1157

Mercury -107813-11-25 09:50 J -37656946.23 -37656946.09 -37656945.95 0.2615 0.1024

Mercury -107809-05-29 21:35 J -37655664.69 -37655664.60 -37655664.52 0.2716 0.1700

Mercury -107803-06-08 19:40 J -37653463.75 -37653463.68 -37653463.61 0.2733 0.2164

Mercury -107796-06-01 16:19 J -37650913.93 -37650913.82 -37650913.71 0.2720 0.0671

Mercury -107793-11-20 07:26 J -37649646.30 -37649646.19 -37649646.09 0.2624 0.1915

Mercury -107783-06-04 11:16 J -37646163.14 -37646163.03 -37646162.92 0.2725 0.0360

Mercury -107780-11-23 11:31 J -37644895.17 -37644895.02 -37644894.87 0.2619 0.0300

Mercury -107776-05-28 07:26 J -37643613.23 -37643613.19 -37643613.15 0.2712 0.2525

Mercury -107770-06-07 06:00 J -37641412.35 -37641412.25 -37641412.16 0.2729 0.1363

Mercury -107767-11-26 16:04 J -37640143.96 -37640143.83 -37640143.70 0.2614 0.1359

Mercury -107763-05-31 02:24 J -37638862.49 -37638862.40 -37638862.30 0.2716 0.1489

Mercury -107757-06-09 00:28 J -37636661.53 -37636661.48 -37636661.42 0.2733 0.2369

Mercury -107750-06-02 21:21 J -37634111.72 -37634111.61 -37634111.50 0.2721 0.0461

Mercury -107747-11-21 13:40 J -37632844.05 -37632843.93 -37632843.81 0.2623 0.1588

Mercury -107737-06-04 16:04 J -37629360.94 -37629360.83 -37629360.72 0.2725 0.0568

Mercury -107734-11-24 18:00 J -37628092.90 -37628092.75 -37628092.60 0.2618 0.0046

Mercury -107730-05-29 12:28 J -37626811.04 -37626810.98 -37626810.92 0.2712 0.2313

Venus -107728-07-19 06:57 J -37626029.34 -37626029.21 -37626029.08 0.2782 0.1485

Mercury -107724-06-07 10:48 J -37624610.14 -37624610.05 -37624609.96 0.2729 0.1576

Mercury -107721-11-26 22:33 J -37623341.68 -37623341.56 -37623341.45 0.2614 0.1691

Mercury -107717-05-31 07:26 J -37622060.29 -37622060.19 -37622060.09 0.2717 0.1282

Mercury -107711-06-10 05:31 J -37619859.30 -37619859.27 -37619859.23 0.2734 0.2572

Mercury -107704-06-03 02:24 J -37617309.52 -37617309.40 -37617309.29 0.2721 0.0263

Mercury -107701-11-21 19:55 J -37616041.80 -37616041.67 -37616041.54 0.2623 0.1273

Mercury -107691-06-05 21:07 J -37612558.73 -37612558.62 -37612558.51 0.2726 0.0769

Mercury -107688-11-25 00:14 J -37611290.64 -37611290.49 -37611290.34 0.2618 0.0367

Mercury -107684-05-29 17:31 J -37610008.84 -37610008.77 -37610008.70 0.2713 0.2105

Mercury -107678-06-08 15:50 J -37607807.92 -37607807.84 -37607807.76 0.2730 0.1778

Mercury -107675-11-28 05:02 J -37606539.39 -37606539.29 -37606539.20 0.2613 0.2029

Mercury -107671-06-01 12:28 J -37605258.09 -37605257.98 -37605257.88 0.2717 0.1073

Mercury -107668-11-19 22:04 J -37603990.61 -37603990.58 -37603990.55 0.2627 0.2555

Mercury -107658-06-04 07:11 J -37600507.31 -37600507.20 -37600507.08 0.2722 0.0100

Mercury -107655-11-23 02:09 J -37599239.55 -37599239.41 -37599239.27 0.2622 0.0949

Mercury -107645-06-06 02:09 J -37595756.52 -37595756.41 -37595756.31 0.2726 0.0978

Mercury -107642-11-26 06:28 J -37594488.37 -37594488.23 -37594488.08 0.2617 0.0692

Mercury -107638-05-30 22:19 J -37593206.65 -37593206.57 -37593206.49 0.2713 0.1900

Mercury -107632-06-08 20:38 J -37591005.71 -37591005.64 -37591005.56 0.2730 0.1988

Mercury -107629-11-28 11:16 J -37589737.09 -37589737.03 -37589736.97 0.2613 0.2360

Mercury -107625-06-01 17:16 J -37588455.88 -37588455.78 -37588455.67 0.2718 0.0868

Mercury -107622-11-21 04:19 J -37587188.40 -37587188.32 -37587188.25 0.2627 0.2243

Mercury -107612-06-04 12:14 J -37583705.10 -37583704.99 -37583704.88 0.2722 0.0164

Mercury -107609-11-23 08:24 J -37582437.30 -37582437.15 -37582437.00 0.2622 0.0630

Venus -107606-01-16 22:33 J -37581652.72 -37581652.56 -37581652.40 0.2559 0.0534

Mercury -107599-06-07 06:57 J -37578954.31 -37578954.21 -37578954.11 0.2727 0.1179

Mercury -107596-11-26 12:57 J -37577686.10 -37577685.96 -37577685.82 0.2617 0.1020

Mercury -107592-05-31 03:21 J -37576404.45 -37576404.36 -37576404.27 0.2714 0.1689

Mercury -107586-06-10 01:40 J -37574203.49 -37574203.43 -37574203.36 0.2731 0.2187

Mercury -107579-06-02 22:19 J -37571653.68 -37571653.57 -37571653.46 0.2718 0.0656

Mercury -107576-11-21 10:33 J -37570386.16 -37570386.06 -37570385.96 0.2626 0.1920

Mercury -107566-06-05 17:16 J -37566902.90 -37566902.78 -37566902.67 0.2723 0.0382

Mercury -107563-11-24 14:38 J -37565635.04 -37565634.89 -37565634.74 0.2621 0.0309

Mercury -107559-05-29 13:26 J -37564352.98 -37564352.94 -37564352.90 0.2710 0.2517

Mercury -107553-06-07 12:00 J -37562152.10 -37562152.00 -37562151.91 0.2727 0.1390

Mercury -107550-11-27 19:11 J -37560883.83 -37560883.70 -37560883.57 0.2616 0.1347

Mercury -107546-06-01 08:24 J -37559602.25 -37559602.15 -37559602.06 0.2714 0.1479

Mercury -107540-06-10 06:43 J -37557401.28 -37557401.22 -37557401.17 0.2732 0.2395

Mercury -107533-06-03 03:21 J -37554851.47 -37554851.36 -37554851.25 0.2719 0.0453

Mercury -107530-11-22 16:48 J -37553583.92 -37553583.80 -37553583.68 0.2625 0.1604

Mercury -107520-06-05 22:04 J -37550100.69 -37550100.58 -37550100.47 0.2723 0.0579

Mercury -107517-11-24 21:07 J -37548832.78 -37548832.62 -37548832.47 0.2620 0.0065

Mercury -107513-05-29 18:28 J -37547550.79 -37547550.73 -37547550.68 0.2710 0.2307

Mercury -107507-06-08 16:48 J -37545349.89 -37545349.80 -37545349.71 0.2728 0.1593

Mercury -107504-11-28 01:26 J -37544081.55 -37544081.44 -37544081.32 0.2616 0.1688

Mercury -107500-06-01 13:26 J -37542800.04 -37542799.94 -37542799.84 0.2715 0.1269

Mercury -107494-06-11 11:31 J -37540599.05 -37540599.02 -37540598.99 0.2732 0.2602

Venus -107493-07-21 16:33 J -37540192.87 -37540192.81 -37540192.74 0.2783 0.2514

Mercury -107487-06-04 08:09 J -37538049.27 -37538049.16 -37538049.04 0.2719 0.0263

Venus -107485-07-19 05:45 J -37537273.38 -37537273.26 -37537273.15 0.2781 0.1902

Mercury -107484-11-22 23:02 J -37536781.67 -37536781.54 -37536781.41 0.2625 0.1278

Mercury -107474-06-07 03:07 J -37533298.48 -37533298.37 -37533298.26 0.2724 0.0786

Mercury -107471-11-26 03:21 J -37532030.51 -37532030.36 -37532030.21 0.2620 0.0357

Mercury -107467-05-30 23:16 J -37530748.60 -37530748.53 -37530748.46 0.2711 0.2097

Mercury -107461-06-08 21:50 J -37528547.67 -37528547.59 -37528547.51 0.2728 0.1800

Mercury -107458-11-29 07:55 J -37527279.27 -37527279.17 -37527279.08 0.2615 0.2022

Mercury -107454-06-02 18:28 J -37525997.84 -37525997.73 -37525997.63 0.2715 0.1061

Mercury -107451-11-21 01:11 J -37524730.47 -37524730.45 -37524730.42 0.2629 0.2565

Mercury -107441-06-04 13:11 J -37521247.06 -37521246.95 -37521246.84 0.2720 0.0053

Mercury -107438-11-24 05:16 J -37519979.42 -37519979.28 -37519979.14 0.2624 0.0959

Mercury -107428-06-07 07:55 J -37516496.27 -37516496.17 -37516496.06 0.2724 0.1001

Mercury -107425-11-26 09:35 J -37515228.24 -37515228.10 -37515227.95 0.2619 0.0691

Mercury -107421-05-31 04:19 J -37513946.40 -37513946.32 -37513946.24 0.2711 0.1885

Mercury -107415-06-10 02:38 J -37511745.46 -37511745.39 -37511745.31 0.2729 0.2010

Mercury -107412-11-29 14:24 J -37510476.96 -37510476.90 -37510476.84 0.2614 0.2362

Mercury -107408-06-02 23:16 J -37509195.63 -37509195.53 -37509195.42 0.2716 0.0848

Mercury -107405-11-21 07:40 J -37507928.26 -37507928.18 -37507928.11 0.2628 0.2246

Mercury -107395-06-05 18:14 J -37504444.85 -37504444.74 -37504444.63 0.2720 0.0185

Mercury -107392-11-24 11:31 J -37503177.16 -37503177.02 -37503176.87 0.2623 0.0636

Mercury -107382-06-08 12:57 J -37499694.06 -37499693.96 -37499693.86 0.2725 0.1204

Mercury -107379-11-27 16:04 J -37498425.97 -37498425.83 -37498425.69 0.2619 0.1017

Mercury -107375-06-01 09:21 J -37497144.20 -37497144.11 -37497144.02 0.2712 0.1673

Mercury -107369-06-10 07:40 J -37494943.24 -37494943.18 -37494943.12 0.2729 0.2214

Venus -107363-01-17 02:24 J -37492896.56 -37492896.40 -37492896.25 0.2560 0.0927

Mercury -107362-06-04 04:19 J -37492393.43 -37492393.32 -37492393.21 0.2717 0.0641

Mercury -107359-11-22 13:40 J -37491126.03 -37491125.93 -37491125.83 0.2628 0.1933

Venus -107355-01-14 19:26 J -37489976.77 -37489976.69 -37489976.61 0.2561 0.2251

Mercury -107349-06-05 23:02 J -37487642.65 -37487642.54 -37487642.42 0.2721 0.0402

Mercury -107346-11-25 17:45 J -37486374.91 -37486374.76 -37486374.61 0.2623 0.0317

Mercury -107342-05-30 19:11 J -37485092.74 -37485092.70 -37485092.66 0.2708 0.2508

Mercury -107336-06-08 18:00 J -37482891.85 -37482891.75 -37482891.66 0.2725 0.1411

Mercury -107333-11-27 22:19 J -37481623.70 -37481623.57 -37481623.44 0.2618 0.1352

Mercury -107329-06-01 14:24 J -37480342.00 -37480341.90 -37480341.81 0.2712 0.1468

Mercury -107323-06-11 12:43 J -37478141.02 -37478140.97 -37478140.93 0.2730 0.2422

Mercury -107316-06-04 09:07 J -37475591.23 -37475591.12 -37475591.00 0.2717 0.0444

Mercury -107313-11-22 19:55 J -37474323.78 -37474323.67 -37474323.55 0.2627 0.1613

Mercury -107303-06-07 04:04 J -37470840.44 -37470840.33 -37470840.22 0.2722 0.0597

Mercury -107300-11-26 00:14 J -37469572.64 -37469572.49 -37469572.34 0.2622 0.0056

Mercury -107296-05-31 00:14 J -37468290.55 -37468290.49 -37468290.43 0.2708 0.2297

Mercury -107290-06-09 22:48 J -37466089.64 -37466089.55 -37466089.46 0.2726 0.1617

Mercury -107287-11-29 04:33 J -37464821.42 -37464821.31 -37464821.19 0.2617 0.1681

Mercury -107283-06-02 19:11 J -37463539.80 -37463539.70 -37463539.60 0.2713 0.1258

Mercury -107277-06-11 17:31 J -37461338.80 -37461338.77 -37461338.74 0.2730 0.2627

Mercury -107270-06-05 14:09 J -37458789.02 -37458788.91 -37458788.80 0.2718 0.0225

Mercury -107267-11-24 02:09 J -37457521.54 -37457521.41 -37457521.28 0.2627 0.1295

Mercury -107257-06-07 09:07 J -37454038.23 -37454038.12 -37454038.02 0.2722 0.0811

Mercury -107254-11-27 06:28 J -37452770.38 -37452770.23 -37452770.08 0.2622 0.0350

Mercury -107250-06-01 05:16 J -37451488.35 -37451488.28 -37451488.21 0.2709 0.2083

Venus -107250-07-22 15:07 J -37451436.97 -37451436.87 -37451436.76 0.2781 0.2083

Mercury -107244-06-10 03:50 J -37449287.42 -37449287.34 -37449287.26 0.2727 0.1825

Venus -107242-07-20 04:04 J -37448517.41 -37448517.33 -37448517.25 0.2780 0.2345

Mercury -107241-11-29 11:02 J -37448019.14 -37448019.04 -37448018.95 0.2617 0.2020

Mercury -107237-06-03 00:14 J -37446737.59 -37446737.49 -37446737.38 0.2714 0.1043

Mercury -107234-11-22 04:33 J -37445470.34 -37445470.31 -37445470.28 0.2631 0.2570

Mercury -107224-06-05 19:11 J -37441986.81 -37441986.70 -37441986.59 0.2718 0.0024

Mercury -107221-11-24 08:38 J -37440719.28 -37440719.14 -37440719.00 0.2626 0.0961

Mercury -107211-06-08 13:55 J -37437236.02 -37437235.92 -37437235.81 0.2723 0.1019

Mercury -107208-11-27 12:43 J -37435968.11 -37435967.97 -37435967.82 0.2621 0.0679

Mercury -107204-06-01 10:19 J -37434686.15 -37434686.07 -37434685.99 0.2710 0.1870

Mercury -107198-06-11 08:38 J -37432485.21 -37432485.14 -37432485.06 0.2727 0.2036

Mercury -107195-11-30 17:16 J -37431216.84 -37431216.78 -37431216.72 0.2616 0.2354

Mercury -107191-06-04 05:16 J -37429935.39 -37429935.28 -37429935.17 0.2714 0.0832

Mercury -107188-11-22 10:48 J -37428668.12 -37428668.05 -37428667.97 0.2630 0.2252

Mercury -107178-06-07 00:14 J -37425184.61 -37425184.49 -37425184.38 0.2719 0.0221

Mercury -107175-11-25 14:52 J -37423917.03 -37423916.88 -37423916.74 0.2625 0.0640

Mercury -107165-06-08 18:57 J -37420433.81 -37420433.71 -37420433.61 0.2723 0.1224

Mercury -107162-11-28 19:11 J -37419165.84 -37419165.70 -37419165.56 0.2621 0.1020

Mercury -107158-06-02 15:21 J -37417883.95 -37417883.86 -37417883.77 0.2710 0.1663

Mercury -107152-06-11 13:40 J -37415682.99 -37415682.93 -37415682.87 0.2728 0.2237

Mercury -107145-06-04 10:19 J -37413133.18 -37413133.07 -37413132.96 0.2715 0.0627

Mercury -107142-11-23 17:02 J -37411865.89 -37411865.79 -37411865.69 0.2630 0.1937

Mercury -107132-06-07 05:02 J -37408382.40 -37408382.29 -37408382.18 0.2719 0.0414

Mercury -107129-11-25 21:07 J -37407114.77 -37407114.62 -37407114.47 0.2625 0.0309

Mercury -107125-05-31 01:11 J -37405832.49 -37405832.45 -37405832.41 0.2706 0.2496

Venus -107120-01-17 05:45 J -37404140.40 -37404140.26 -37404140.12 0.2561 0.1288

Mercury -107119-06-09 23:45 J -37403631.60 -37403631.51 -37403631.41 0.2724 0.1436

Mercury -107116-11-29 01:26 J -37402363.57 -37402363.44 -37402363.31 0.2620 0.1347

Venus -107112-01-14 23:02 J -37401220.64 -37401220.54 -37401220.43 0.2562 0.1876

Mercury -107112-06-02 20:09 J -37401081.75 -37401081.66 -37401081.56 0.2711 0.1452

Mercury -107106-06-12 18:28 J -37398880.77 -37398880.73 -37398880.68 0.2728 0.2450

Mercury -107099-06-05 15:07 J -37396330.98 -37396330.87 -37396330.75 0.2715 0.0417

Mercury -107096-11-23 23:16 J -37395063.65 -37395063.53 -37395063.42 0.2629 0.1621

Mercury -107086-06-08 10:04 J -37391580.19 -37391580.08 -37391579.97 0.2720 0.0620

Mercury -107083-11-27 03:21 J -37390312.51 -37390312.36 -37390312.21 0.2624 0.0055

Mercury -107079-06-01 06:14 J -37389030.30 -37389030.24 -37389030.18 0.2707 0.2285

Mercury -107073-06-10 04:48 J -37386829.39 -37386829.30 -37386829.21 0.2724 0.1642

Mercury -107070-11-30 07:40 J -37385561.29 -37385561.18 -37385561.06 0.2619 0.1683

Mercury -107066-06-04 01:11 J -37384279.55 -37384279.45 -37384279.35 0.2711 0.1238

Mercury -107060-06-12 23:31 J -37382078.54 -37382078.52 -37382078.50 0.2729 0.2654

Mercury -107053-06-05 20:09 J -37379528.77 -37379528.66 -37379528.55 0.2716 0.0201

Mercury -107050-11-25 05:31 J -37378261.40 -37378261.27 -37378261.14 0.2628 0.1292

Mercury -107040-06-08 15:07 J -37374777.98 -37374777.87 -37374777.77 0.2720 0.0835

Mercury -107037-11-27 09:35 J -37373510.25 -37373510.10 -37373509.95 0.2624 0.0345

Mercury -107033-06-01 11:16 J -37372228.11 -37372228.03 -37372227.96 0.2707 0.2077

Mercury -107027-06-11 09:50 J -37370027.17 -37370027.09 -37370027.01 0.2725 0.1853

Mercury -107024-11-30 13:55 J -37368759.01 -37368758.92 -37368758.82 0.2619 0.2015

Mercury -107020-06-04 06:14 J -37367477.35 -37367477.24 -37367477.14 0.2712 0.1029

Mercury -107017-11-22 07:55 J -37366210.20 -37366210.17 -37366210.15 0.2633 0.2581

Mercury -107007-06-07 01:11 J -37362726.57 -37362726.45 -37362726.34 0.2716 0.0083

Venus -107007-07-22 13:40 J -37362681.05 -37362680.93 -37362680.81 0.2780 0.1644

Mercury -107004-11-25 11:45 J -37361459.15 -37361459.01 -37361458.87 0.2628 0.0975

107TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 107th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	-106999-07-20 02:52 J	-37359761.39	-37359761.38	-37359761.37	0.2778	0.2769		
Mercury	-106994-06-09 19:55 J	-37357975.77	-37357975.67	-37357975.56	0.2721	0.1042		
Mercury	-106991-11-28 15:50 J	-37356707.98	-37356707.84	-37356707.69	0.2623	0.0682		
Mercury	-106987-06-02 16:04 J	-37355425.91	-37355425.83	-37355425.74	0.2708	0.1861		
Mercury	-106981-06-11 14:38 J	-37353224.96	-37353224.89	-37353224.81	0.2726	0.2061		
Mercury	-106978-12-01 20:24 J	-37351956.71	-37351956.65	-37351956.59	0.2618	0.2358		
Mercury	-106974-06-05 11:16 J	-37350675.14	-37350675.03	-37350674.93	0.2712	0.0825		
Mercury	-106971-11-23 13:55 J	-37349407.99	-37349407.92	-37349407.84	0.2632	0.2267		
Mercury	-106961-06-07 06:00 J	-37345924.36	-37345924.25	-37345924.13	0.2717	0.0239		
Mercury	-106958-11-26 18:00 J	-37344656.90	-37344656.75	-37344656.61	0.2627	0.0643		
Mercury	-106954-06-01 02:09 J	-37343374.42	-37343374.41	-37343374.41	0.2704	0.2696		
Mercury	-106948-06-10 00:57 J	-37341173.56	-37341173.46	-37341173.36	0.2722	0.1250		
Mercury	-106945-11-28 22:04 J	-37339905.72	-37339905.58	-37339905.44	0.2622	0.1010		
Mercury	-106941-06-02 21:07 J	-37338623.71	-37338623.62	-37338623.53	0.2708	0.1647		

Mercury -106935-06-12 19:40 J -37336422.74 -37336422.68 -37336422.62 0.2726 0.2271

Mercury -106928-06-05 16:04 J -37333872.94 -37333872.83 -37333872.72 0.2713 0.0607

Mercury -106925-11-23 20:24 J -37332605.75 -37332605.65 -37332605.56 0.2632 0.1943

Mercury -106915-06-08 11:02 J -37329122.15 -37329122.04 -37329121.93 0.2717 0.0430

Mercury -106912-11-27 00:14 J -37327854.64 -37327854.49 -37327854.34 0.2627 0.0322

Mercury -106908-06-01 06:57 J -37326572.25 -37326572.21 -37326572.16 0.2704 0.2486

Mercury -106902-06-11 05:45 J -37324371.35 -37324371.26 -37324371.16 0.2722 0.1460

Mercury -106899-11-30 04:19 J -37323103.44 -37323103.32 -37323103.19 0.2622 0.1344

Mercury -106895-06-04 02:09 J -37321821.51 -37321821.41 -37321821.31 0.2709 0.1433

Mercury -106889-06-13 00:43 J -37319620.52 -37319620.47 -37319620.43 0.2727 0.2479

Mercury -106882-06-06 21:07 J -37317070.73 -37317070.62 -37317070.51 0.2714 0.0392

Mercury -106879-11-25 02:38 J -37315803.51 -37315803.39 -37315803.28 0.2631 0.1620

Venus -106877-01-18 09:21 J -37315384.23 -37315384.11 -37315383.98 0.2562 0.1676

Venus -106869-01-16 02:38 J -37312464.52 -37312464.39 -37312464.26 0.2563 0.1523

Mercury -106869-06-08 16:04 J -37312319.94 -37312319.83 -37312319.72 0.2718 0.0647

Mercury -106866-11-28 06:28 J -37311052.38 -37311052.23 -37311052.08 0.2626 0.0026

Mercury -106862-06-02 12:00 J -37309770.06 -37309770.00 -37309769.94 0.2705 0.2274

Mercury -106856-06-11 10:48 J -37307569.14 -37307569.05 -37307568.96 0.2723 0.1667

Mercury -106853-11-30 10:48 J -37306301.17 -37306301.05 -37306300.94 0.2621 0.1674

Mercury -106849-06-04 07:11 J -37305019.30 -37305019.20 -37305019.10 0.2709 0.1225

Mercury -106843-06-14 05:31 J -37302818.29 -37302818.27 -37302818.25 0.2727 0.2684

Mercury -106836-06-07 02:09 J -37300268.53 -37300268.41 -37300268.30 0.2714 0.0199

Mercury -106833-11-25 08:38 J -37299001.27 -37299001.14 -37299001.01 0.2630 0.1301

Mercury -106823-06-09 20:52 J -37295517.73 -37295517.63 -37295517.52 0.2719 0.0857

Mercury -106820-11-28 12:43 J -37294250.12 -37294249.97 -37294249.82 0.2625 0.0343

Mercury -106816-06-02 17:02 J -37292967.86 -37292967.79 -37292967.72 0.2705 0.2057

Mercury -106810-06-12 15:50 J -37290766.92 -37290766.84 -37290766.76 0.2723 0.1880

Mercury -106807-12-01 17:02 J -37289498.88 -37289498.79 -37289498.69 0.2621 0.2021

Mercury -106803-06-05 12:00 J -37288217.10 -37288217.00 -37288216.89 0.2710 0.1017

Mercury -106800-11-23 11:02 J -37286950.06 -37286950.04 -37286950.01 0.2635 0.2592

Mercury -106790-06-08 06:57 J -37283466.32 -37283466.21 -37283466.09 0.2715 0.0100

Mercury -106787-11-26 14:52 J -37282199.02 -37282198.88 -37282198.74 0.2630 0.0976

Mercury -106777-06-10 01:55 J -37278715.52 -37278715.42 -37278715.32 0.2719 0.1064

Mercury -106774-11-29 18:57 J -37277447.85 -37277447.71 -37277447.56 0.2625 0.0676

Mercury -106770-06-03 22:04 J -37276165.66 -37276165.58 -37276165.50 0.2706 0.1846

Mercury -106764-06-12 20:38 J -37273964.71 -37273964.64 -37273964.57 0.2724 0.2091

Venus -106764-07-22 12:14 J -37273925.13 -37273924.99 -37273924.85 0.2778 0.1219

Mercury -106761-12-01 23:16 J -37272696.59 -37272696.53 -37272696.46 0.2620 0.2355

Mercury -106757-06-05 17:02 J -37271414.90 -37271414.79 -37271414.68 0.2711 0.0797

Mercury -106754-11-24 17:16 J -37270147.85 -37270147.78 -37270147.70 0.2634 0.2269

Mercury -106744-06-08 12:00 J -37266664.11 -37266664.00 -37266663.89 0.2715 0.0245

Mercury -106741-11-26 21:07 J -37265396.76 -37265396.62 -37265396.47 0.2629 0.0653

Mercury -106737-06-01 07:55 J -37264114.18 -37264114.17 -37264114.16 0.2702 0.2689

Mercury -106731-06-11 06:57 J -37261913.31 -37261913.21 -37261913.11 0.2720 0.1278

Mercury -106728-11-30 01:11 J -37260645.59 -37260645.45 -37260645.31 0.2624 0.1007

Mercury -106724-06-04 03:07 J -37259363.46 -37259363.37 -37259363.28 0.2706 0.1632

Mercury -106718-06-14 01:40 J -37257162.49 -37257162.43 -37257162.37 0.2724 0.2300

Mercury -106711-06-06 22:04 J -37254612.69 -37254612.58 -37254612.47 0.2711 0.0582

Mercury -106708-11-24 23:31 J -37253345.62 -37253345.52 -37253345.42 0.2634 0.1950

Mercury -106698-06-09 17:02 J -37249861.90 -37249861.79 -37249861.68 0.2716 0.0460

Mercury -106695-11-28 03:21 J -37248594.51 -37248594.36 -37248594.21 0.2629 0.0323

Mercury -106691-06-02 12:57 J -37247312.00 -37247311.96 -37247311.92 0.2702 0.2474

Mercury -106685-06-11 11:45 J -37245111.10 -37245111.01 -37245110.91 0.2720 0.1490

Mercury -106682-12-01 07:40 J -37243843.31 -37243843.18 -37243843.05 0.2624 0.1341

Mercury -106678-06-05 08:09 J -37242561.26 -37242561.16 -37242561.07 0.2707 0.1424

Mercury -106672-06-14 06:28 J -37240360.27 -37240360.23 -37240360.18 0.2725 0.2511

Mercury -106665-06-07 03:07 J -37237810.49 -37237810.37 -37237810.26 0.2712 0.0385

Mercury -106662-11-26 05:45 J -37236543.38 -37236543.26 -37236543.15 0.2633 0.1631

Mercury -106652-06-09 21:50 J -37233059.70 -37233059.59 -37233059.48 0.2716 0.0675

Mercury -106649-11-28 09:35 J -37231792.25 -37231792.10 -37231791.95 0.2628 0.0005

Mercury -106645-06-02 18:00 J -37230509.81 -37230509.75 -37230509.69 0.2703 0.2256

Mercury -106639-06-12 16:48 J -37228308.89 -37228308.80 -37228308.71 0.2721 0.1699

Mercury -106636-12-01 13:55 J -37227041.04 -37227040.92 -37227040.81 0.2623 0.1679

Venus -106634-01-18 12:43 J -37226628.06 -37226627.97 -37226627.87 0.2563 0.2023

Mercury -106632-06-05 12:57 J -37225759.06 -37225758.96 -37225758.86 0.2708 0.1207

Venus -106626-01-16 06:14 J -37223708.38 -37223708.24 -37223708.09 0.2565 0.1155

Mercury -106626-06-15 11:31 J -37223558.02 -37223558.02 -37223558.01 0.2725 0.2716

Mercury -106619-06-08 07:55 J -37221008.28 -37221008.17 -37221008.05 0.2712 0.0176

Mercury -106616-11-26 12:00 J -37219741.13 -37219741.00 -37219740.87 0.2632 0.1310

Mercury -106606-06-11 02:52 J -37216257.49 -37216257.38 -37216257.27 0.2717 0.0877

Mercury -106603-11-29 15:50 J -37214989.99 -37214989.84 -37214989.69 0.2627 0.0338

Mercury -106599-06-03 23:02 J -37213707.62 -37213707.54 -37213707.47 0.2703 0.2046

Mercury -106593-06-12 21:35 J -37211506.67 -37211506.60 -37211506.52 0.2721 0.1909

Mercury -106590-12-02 20:09 J -37210238.76 -37210238.66 -37210238.57 0.2622 0.2009

Mercury -106586-06-06 17:59 J -37208956.86 -37208956.75 -37208956.64 0.2708 0.0990

Mercury -106583-11-24 14:23 J -37207689.92 -37207689.90 -37207689.87 0.2637 0.2593

Mercury -106573-06-08 12:57 J -37204206.07 -37204205.96 -37204205.85 0.2713 0.0058

Mercury -106570-11-27 18:14 J -37202938.88 -37202938.74 -37202938.61 0.2632 0.0983

Mercury -106560-06-11 07:55 J -37199455.28 -37199455.17 -37199455.07 0.2718 0.1090

Mercury -106557-11-29 22:04 J -37198187.72 -37198187.58 -37198187.43 0.2627 0.0669

Mercury -106553-06-04 03:50 J -37196905.42 -37196905.34 -37196905.25 0.2704 0.1832

Mercury -106547-06-14 02:38 J -37194704.46 -37194704.39 -37194704.32 0.2722 0.2117

Mercury -106544-12-03 02:23 J -37193436.46 -37193436.40 -37193436.33 0.2622 0.2355

Mercury -106540-06-06 23:02 J -37192154.65 -37192154.54 -37192154.43 0.2709 0.0776

Mercury -106537-11-24 20:38 J -37190887.71 -37190887.64 -37190887.57 0.2636 0.2275

Mercury -106527-06-09 17:59 J -37187403.86 -37187403.75 -37187403.64 0.2714 0.0271

Mercury -106524-11-28 00:28 J -37186136.63 -37186136.48 -37186136.34 0.2631 0.0651

Venus -106521-07-22 10:47 J -37185169.20 -37185169.05 -37185168.91 0.2777 0.0774

Mercury -106520-06-02 13:40 J -37184853.94 -37184853.93 -37184853.91 0.2700 0.2675

Mercury -106514-06-12 12:57 J -37182653.06 -37182652.96 -37182652.87 0.2718 0.1310

Mercury -106511-12-01 04:33 J -37181385.45 -37181385.31 -37181385.17 0.2626 0.1010
 Mercury -106507-06-05 08:52 J -37180103.22 -37180103.13 -37180103.04 0.2705 0.1617
 Mercury -106501-06-14 07:40 J -37177902.24 -37177902.18 -37177902.13 0.2723 0.2329
 Mercury -106494-06-08 04:04 J -37175352.45 -37175352.33 -37175352.22 0.2709 0.0570
 Mercury -106491-11-26 02:52 J -37174085.48 -37174085.38 -37174085.28 0.2635 0.1954
 Mercury -106481-06-09 23:02 J -37170601.66 -37170601.54 -37170601.43 0.2714 0.0491
 Mercury -106478-11-29 06:43 J -37169334.37 -37169334.22 -37169334.08 0.2630 0.0336
 Mercury -106474-06-03 18:43 J -37168051.76 -37168051.72 -37168051.67 0.2700 0.2459
 Mercury -106468-06-12 17:45 J -37165850.85 -37165850.76 -37165850.67 0.2719 0.1519
 Mercury -106465-12-01 10:47 J -37164583.18 -37164583.05 -37164582.92 0.2625 0.1345
 Mercury -106461-06-05 13:55 J -37163301.02 -37163300.92 -37163300.82 0.2705 0.1397
 Mercury -106455-06-15 12:28 J -37161100.01 -37161099.98 -37161099.94 0.2723 0.2542
 Mercury -106448-06-08 08:52 J -37158550.24 -37158550.13 -37158550.01 0.2710 0.0359
 Mercury -106445-11-26 08:52 J -37157283.24 -37157283.13 -37157283.01 0.2635 0.1638
 Mercury -106435-06-11 03:50 J -37153799.45 -37153799.34 -37153799.23 0.2715 0.0699
 Mercury -106432-11-29 12:57 J -37152532.11 -37152531.96 -37152531.81 0.2630 0.0067
 Mercury -106428-06-03 23:45 J -37151249.57 -37151249.51 -37151249.45 0.2701 0.2243
 Mercury -106422-06-13 22:47 J -37149048.64 -37149048.55 -37149048.47 0.2719 0.1727
 Mercury -106419-12-02 17:02 J -37147780.91 -37147780.79 -37147780.68 0.2625 0.1677
 Mercury -106415-06-06 18:57 J -37146498.81 -37146498.71 -37146498.61 0.2706 0.1185
 Mercury -106402-06-09 13:55 J -37141748.03 -37141747.92 -37141747.81 0.2710 0.0134
 Mercury -106399-11-27 15:07 J -37140481.00 -37140480.87 -37140480.74 0.2634 0.1313
 Venus -106391-01-18 16:33 J -37137871.87 -37137871.81 -37137871.76 0.2564 0.2402
 Mercury -106389-06-11 08:52 J -37136997.24 -37136997.13 -37136997.02 0.2715 0.0906
 Mercury -106386-11-30 18:57 J -37135729.86 -37135729.71 -37135729.56 0.2629 0.0336
 Venus -106383-01-16 09:35 J -37134952.25 -37134952.10 -37134951.95 0.2566 0.0816
 Mercury -106382-06-05 04:47 J -37134447.37 -37134447.30 -37134447.23 0.2702 0.2030
 Mercury -106376-06-14 03:35 J -37132246.42 -37132246.35 -37132246.27 0.2720 0.1939
 Mercury -106373-12-02 23:16 J -37130978.63 -37130978.53 -37130978.43 0.2624 0.2014
 Mercury -106369-06-06 23:59 J -37129696.61 -37129696.50 -37129696.40 0.2706 0.0974

Mercury -106366-11-25 17:45 J -37128429.78 -37128429.76 -37128429.74 0.2639 0.2601

Mercury -106356-06-09 18:57 J -37124945.83 -37124945.71 -37124945.60 0.2711 0.0087

Mercury -106353-11-27 21:21 J -37123678.75 -37123678.61 -37123678.47 0.2634 0.0987

Mercury -106343-06-12 13:55 J -37120195.03 -37120194.92 -37120194.82 0.2716 0.1125

Mercury -106340-12-01 01:26 J -37118927.59 -37118927.44 -37118927.30 0.2629 0.0673

Mercury -106336-06-05 09:50 J -37117645.17 -37117645.09 -37117645.01 0.2702 0.1812

Mercury -106330-06-15 08:38 J -37115444.21 -37115444.14 -37115444.07 0.2720 0.2150

Mercury -106327-12-04 05:31 J -37114176.33 -37114176.27 -37114176.20 0.2624 0.2351

Mercury -106323-06-08 04:47 J -37112894.41 -37112894.30 -37112894.19 0.2707 0.0763

Mercury -106320-11-25 23:59 J -37111627.57 -37111627.50 -37111627.43 0.2638 0.2279

Mercury -106310-06-10 23:59 J -37108143.62 -37108143.50 -37108143.39 0.2712 0.0313

Mercury -106307-11-29 03:35 J -37106876.50 -37106876.35 -37106876.21 0.2633 0.0658

Mercury -106303-06-03 19:40 J -37105593.70 -37105593.68 -37105593.66 0.2698 0.2657

Mercury -106297-06-12 18:43 J -37103392.82 -37103392.72 -37103392.62 0.2716 0.1333

Mercury -106294-12-02 07:40 J -37102125.32 -37102125.18 -37102125.04 0.2628 0.1004

Mercury -106290-06-06 14:52 J -37100842.97 -37100842.88 -37100842.79 0.2703 0.1592

Mercury -106284-06-15 13:40 J -37098641.99 -37098641.93 -37098641.88 0.2721 0.2365

Venus -106278-07-23 09:21 J -37096413.27 -37096413.11 -37096412.96 0.2775 0.0360

Mercury -106277-06-08 09:50 J -37096092.20 -37096092.09 -37096091.98 0.2708 0.0542

Mercury -106274-11-27 06:14 J -37094825.34 -37094825.24 -37094825.15 0.2638 0.1958

Mercury -106264-06-11 04:47 J -37091341.41 -37091341.30 -37091341.19 0.2712 0.0512

Mercury -106261-11-29 09:50 J -37090074.24 -37090074.09 -37090073.94 0.2632 0.0328

Mercury -106257-06-04 00:43 J -37088791.52 -37088791.47 -37088791.42 0.2699 0.2439

Mercury -106251-06-13 23:45 J -37086590.60 -37086590.51 -37086590.42 0.2717 0.1544

Mercury -106248-12-02 13:55 J -37085323.05 -37085322.92 -37085322.79 0.2627 0.1343

Mercury -106244-06-06 19:55 J -37084040.77 -37084040.67 -37084040.57 0.2703 0.1379

Mercury -106238-06-16 18:28 J -37081839.76 -37081839.73 -37081839.69 0.2721 0.2574

Mercury -106231-06-09 14:52 J -37079289.99 -37079289.88 -37079289.77 0.2708 0.0322

Mercury -106228-11-27 12:14 J -37078023.10 -37078022.99 -37078022.87 0.2637 0.1636

Mercury -106218-06-12 09:50 J -37074539.20 -37074539.09 -37074538.98 0.2713 0.0724

Mercury -106215-11-30 16:04 J -37073271.98 -37073271.83 -37073271.68 0.2632 0.0017

Mercury -106211-06-05 05:45 J -37071989.33 -37071989.26 -37071989.20 0.2699 0.2226

Mercury -106205-06-14 04:47 J -37069788.39 -37069788.30 -37069788.22 0.2718 0.1760

Mercury -106202-12-03 20:09 J -37068520.77 -37068520.66 -37068520.54 0.2627 0.1679

Mercury -106198-06-08 00:57 J -37067238.57 -37067238.46 -37067238.36 0.2704 0.1165

Mercury -106185-06-09 19:55 J -37062487.79 -37062487.67 -37062487.56 0.2709 0.0112

Mercury -106182-11-28 18:28 J -37061220.86 -37061220.73 -37061220.60 0.2636 0.1309

Mercury -106172-06-12 14:52 J -37057736.99 -37057736.88 -37057736.78 0.2713 0.0939

Mercury -106169-11-30 22:19 J -37056469.72 -37056469.57 -37056469.42 0.2631 0.0339

Mercury -106165-06-05 10:47 J -37055187.13 -37055187.05 -37055186.98 0.2700 0.2008

Mercury -106159-06-15 09:35 J -37052986.17 -37052986.10 -37052986.02 0.2718 0.1975

Mercury -106156-12-04 02:23 J -37051718.49 -37051718.40 -37051718.30 0.2626 0.2016

Mercury -106152-06-08 05:45 J -37050436.36 -37050436.26 -37050436.15 0.2705 0.0950

Mercury -106149-11-25 21:07 J -37049169.64 -37049169.62 -37049169.60 0.2641 0.2603

Venus -106140-01-16 13:11 J -37046196.11 -37046195.95 -37046195.79 0.2568 0.0459

Mercury -106139-06-11 00:43 J -37045685.58 -37045685.47 -37045685.35 0.2709 0.0152

Mercury -106136-11-29 00:43 J -37044418.61 -37044418.47 -37044418.33 0.2636 0.0988

Mercury -106126-06-13 19:40 J -37040934.78 -37040934.68 -37040934.57 0.2714 0.1154

Mercury -106123-12-02 04:33 J -37039667.46 -37039667.31 -37039667.17 0.2631 0.0668

Mercury -106119-06-06 15:50 J -37038384.93 -37038384.84 -37038384.76 0.2700 0.1794

Mercury -106113-06-15 14:38 J -37036183.96 -37036183.89 -37036183.83 0.2719 0.2185

Mercury -106110-12-05 08:38 J -37034916.20 -37034916.14 -37034916.07 0.2625 0.2357

Mercury -106106-06-09 10:47 J -37033634.16 -37033634.05 -37033633.94 0.2705 0.0730

Mercury -106103-11-27 03:21 J -37032367.44 -37032367.36 -37032367.29 0.2640 0.2286

Mercury -106093-06-11 05:45 J -37028883.37 -37028883.26 -37028883.14 0.2710 0.0325

Mercury -106090-11-30 06:57 J -37027616.36 -37027616.21 -37027616.07 0.2635 0.0660

Mercury -106086-06-05 01:26 J -37026333.46 -37026333.44 -37026333.42 0.2696 0.2643

Mercury -106080-06-14 00:43 J -37024132.57 -37024132.47 -37024132.37 0.2715 0.1364

Mercury -106077-12-02 10:47 J -37022865.19 -37022865.05 -37022864.91 0.2630 0.1003

Mercury -106073-06-06 20:38 J -37021582.73 -37021582.64 -37021582.54 0.2701 0.1577

Mercury -106067-06-16 19:40 J -37019381.73 -37019381.68 -37019381.63 0.2719 0.2399

Mercury -106060-06-09 15:50 J -37016831.95 -37016831.84 -37016831.73 0.2706 0.0515

Mercury -106057-11-27 09:21 J -37015565.20 -37015565.11 -37015565.01 0.2639 0.1964

Mercury -106047-06-12 10:47 J -37012081.16 -37012081.05 -37012080.94 0.2710 0.0540

Mercury -106044-11-30 12:57 J -37010814.10 -37010813.96 -37010813.81 0.2634 0.0341

Mercury -106040-06-05 06:28 J -37009531.27 -37009531.23 -37009531.18 0.2697 0.2424

Venus -106035-07-23 07:55 J -37007657.33 -37007657.17 -37007657.02 0.2773 0.0080

Mercury -106034-06-15 05:45 J -37007330.35 -37007330.26 -37007330.17 0.2715 0.1580

Mercury -106031-12-03 17:02 J -37006062.92 -37006062.79 -37006062.66 0.2629 0.1338

Mercury -106027-06-08 01:40 J -37004780.53 -37004780.43 -37004780.33 0.2702 0.1357

Mercury -106021-06-17 00:28 J -37002579.50 -37002579.48 -37002579.45 0.2720 0.2612

Mercury -106014-06-10 20:52 J -37000029.75 -37000029.63 -37000029.52 0.2706 0.0305

Mercury -106011-11-28 15:35 J -36998762.96 -36998762.85 -36998762.73 0.2639 0.1634

Mercury -106001-06-12 15:50 J -36995278.95 -36995278.84 -36995278.73 0.2711 0.0753

106TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 106th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
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Mercury -105998-12-01 19:26 J -36994011.84 -36994011.69 -36994011.55 0.2634 0.0076

Mercury -105994-06-06 11:31 J -36992729.08 -36992729.02 -36992728.95 0.2697 0.2204

Mercury -105988-06-15 10:47 J -36990528.14 -36990528.05 -36990527.97 0.2716 0.1799

Mercury -105985-12-03 23:16 J -36989260.64 -36989260.53 -36989260.42 0.2629 0.1677
 Mercury -105981-06-08 06:43 J -36987978.32 -36987978.22 -36987978.11 0.2702 0.1138
 Mercury -105968-06-11 01:40 J -36983227.54 -36983227.43 -36983227.31 0.2707 0.0126
 Mercury -105965-11-28 21:50 J -36981960.72 -36981960.59 -36981960.46 0.2638 0.1310
 Mercury -105955-06-13 20:38 J -36978476.74 -36978476.64 -36978476.53 0.2712 0.0975
 Mercury -105952-12-02 01:26 J -36977209.58 -36977209.44 -36977209.29 0.2633 0.0343
 Mercury -105948-06-06 16:33 J -36975926.88 -36975926.81 -36975926.73 0.2698 0.1986
 Mercury -105942-06-16 15:35 J -36973725.92 -36973725.85 -36973725.77 0.2716 0.2006
 Mercury -105939-12-05 05:31 J -36972458.36 -36972458.27 -36972458.17 0.2628 0.2018
 Mercury -105935-06-09 11:45 J -36971176.12 -36971176.01 -36971175.90 0.2703 0.0920
 Mercury -105932-11-27 00:28 J -36969909.50 -36969909.48 -36969909.46 0.2643 0.2603
 Mercury -105922-06-12 06:43 J -36966425.33 -36966425.22 -36966425.10 0.2708 0.0145
 Mercury -105919-11-30 04:04 J -36965158.47 -36965158.33 -36965158.20 0.2638 0.0985
 Mercury -105909-06-14 01:40 J -36961674.53 -36961674.43 -36961674.33 0.2712 0.1184
 Mercury -105906-12-03 07:40 J -36960407.32 -36960407.18 -36960407.03 0.2632 0.0675
 Mercury -105902-06-07 21:35 J -36959124.69 -36959124.60 -36959124.51 0.2699 0.1768
 Venus -105897-01-17 16:47 J -36957439.97 -36957439.80 -36957439.64 0.2569 0.0135
 Mercury -105896-06-16 20:38 J -36956923.71 -36956923.64 -36956923.58 0.2717 0.2220
 Mercury -105893-12-05 11:45 J -36955656.07 -36955656.01 -36955655.94 0.2627 0.2359
 Mercury -105889-06-09 16:47 J -36954373.91 -36954373.80 -36954373.69 0.2703 0.0708
 Mercury -105886-11-28 06:43 J -36953107.29 -36953107.22 -36953107.15 0.2642 0.2283
 Mercury -105876-06-12 11:45 J -36949623.12 -36949623.01 -36949622.90 0.2708 0.0354
 Mercury -105873-11-30 10:04 J -36948356.22 -36948356.08 -36948355.93 0.2637 0.0664
 Mercury -105869-06-05 07:26 J -36947073.21 -36947073.19 -36947073.17 0.2694 0.2622
 Mercury -105863-06-15 06:43 J -36944872.32 -36944872.22 -36944872.12 0.2713 0.1400
 Mercury -105860-12-03 13:55 J -36943605.06 -36943604.92 -36943604.78 0.2632 0.1005
 Mercury -105856-06-08 02:38 J -36942322.48 -36942322.39 -36942322.30 0.2699 0.1552
 Mercury -105850-06-18 01:40 J -36940121.48 -36940121.43 -36940121.39 0.2717 0.2437
 Mercury -105843-06-10 21:50 J -36937571.71 -36937571.59 -36937571.48 0.2704 0.0496
 Mercury -105840-11-28 12:43 J -36936305.06 -36936304.97 -36936304.87 0.2641 0.1963

Mercury -105830-06-13 16:47 J -36932820.91 -36932820.80 -36932820.69 0.2709 0.0570

Mercury -105827-12-01 16:19 J -36931553.96 -36931553.82 -36931553.67 0.2636 0.0331

Mercury -105823-06-06 12:28 J -36930271.03 -36930270.98 -36930270.93 0.2695 0.2405

Mercury -105817-06-15 11:45 J -36928070.10 -36928070.01 -36928069.92 0.2713 0.1617

Mercury -105814-12-04 20:09 J -36926802.79 -36926802.66 -36926802.53 0.2631 0.1343

Mercury -105810-06-09 07:40 J -36925520.28 -36925520.18 -36925520.08 0.2700 0.1332

Mercury -105804-06-18 06:28 J -36923319.25 -36923319.23 -36923319.21 0.2718 0.2652

Mercury -105797-06-11 02:38 J -36920769.50 -36920769.39 -36920769.27 0.2705 0.0280

Mercury -105794-11-29 18:57 J -36919502.82 -36919502.71 -36919502.59 0.2641 0.1639

Venus -105792-07-23 06:43 J -36918901.38 -36918901.22 -36918901.07 0.2771 0.0479

Mercury -105784-06-13 21:50 J -36916018.70 -36916018.59 -36916018.49 0.2709 0.0793

Mercury -105781-12-01 22:33 J -36914751.71 -36914751.56 -36914751.41 0.2636 0.0003

Mercury -105777-06-06 17:31 J -36913468.84 -36913468.77 -36913468.71 0.2696 0.2184

Mercury -105771-06-16 16:33 J -36911267.89 -36911267.81 -36911267.72 0.2714 0.1834

Mercury -105768-12-05 02:23 J -36910000.51 -36910000.40 -36910000.28 0.2631 0.1687

Mercury -105764-06-09 12:43 J -36908718.08 -36908717.97 -36908717.87 0.2700 0.1116

Mercury -105751-06-12 07:40 J -36903967.29 -36903967.18 -36903967.06 0.2705 0.0065

Mercury -105748-11-30 01:11 J -36902700.58 -36902700.45 -36902700.33 0.2640 0.1314

Mercury -105738-06-15 02:38 J -36899216.49 -36899216.39 -36899216.28 0.2710 0.1007

Mercury -105735-12-03 04:47 J -36897949.45 -36897949.30 -36897949.15 0.2635 0.0337

Mercury -105731-06-07 22:33 J -36896666.64 -36896666.56 -36896666.49 0.2696 0.1964

Mercury -105725-06-16 21:35 J -36894465.67 -36894465.60 -36894465.53 0.2715 0.2045

Mercury -105722-12-06 08:38 J -36893198.23 -36893198.14 -36893198.04 0.2630 0.2022

Mercury -105718-06-10 17:31 J -36891915.87 -36891915.77 -36891915.66 0.2701 0.0902

Mercury -105715-11-28 04:04 J -36890649.36 -36890649.33 -36890649.31 0.2645 0.2598

Mercury -105705-06-12 12:43 J -36887165.08 -36887164.97 -36887164.86 0.2706 0.0167

Mercury -105702-12-01 07:11 J -36885898.33 -36885898.20 -36885898.06 0.2639 0.0992

Mercury -105692-06-15 07:40 J -36882414.28 -36882414.18 -36882414.08 0.2710 0.1219

Mercury -105689-12-03 11:02 J -36881147.19 -36881147.04 -36881146.90 0.2634 0.0670

Mercury -105685-06-08 03:21 J -36879864.44 -36879864.36 -36879864.27 0.2697 0.1748

Mercury -105679-06-18 02:38 J -36877663.45 -36877663.39 -36877663.33 0.2715 0.2259

Mercury -105676-12-06 14:52 J -36876395.94 -36876395.88 -36876395.81 0.2629 0.2361

Mercury -105672-06-10 22:33 J -36875113.67 -36875113.56 -36875113.45 0.2702 0.0679

Mercury -105669-11-28 10:04 J -36873847.15 -36873847.08 -36873847.01 0.2644 0.2283

Mercury -105659-06-13 17:45 J -36870362.88 -36870362.76 -36870362.65 0.2706 0.0388

Mercury -105656-12-01 13:26 J -36869096.08 -36869095.94 -36869095.79 0.2639 0.0656

Venus -105654-01-17 20:09 J -36868683.82 -36868683.66 -36868683.50 0.2571 0.0228

Mercury -105652-06-06 13:11 J -36867812.97 -36867812.95 -36867812.92 0.2692 0.2603

Mercury -105646-06-16 12:43 J -36865612.07 -36865611.97 -36865611.88 0.2711 0.1433

Mercury -105643-12-04 17:16 J -36864344.92 -36864344.78 -36864344.64 0.2634 0.1007

Mercury -105639-06-09 08:23 J -36863062.24 -36863062.15 -36863062.05 0.2697 0.1528

Mercury -105633-06-18 07:26 J -36860861.23 -36860861.19 -36860861.14 0.2716 0.2474

Mercury -105626-06-12 03:35 J -36858311.46 -36858311.35 -36858311.23 0.2702 0.0458

Mercury -105623-11-29 16:19 J -36857044.92 -36857044.82 -36857044.73 0.2643 0.1960

Mercury -105613-06-13 22:47 J -36853560.67 -36853560.55 -36853560.44 0.2707 0.0612

Mercury -105610-12-02 19:40 J -36852293.83 -36852293.68 -36852293.53 0.2638 0.0327

Mercury -105606-06-07 18:14 J -36851010.79 -36851010.74 -36851010.69 0.2693 0.2381

Mercury -105600-06-16 17:31 J -36848809.85 -36848809.77 -36848809.68 0.2712 0.1655

Mercury -105597-12-04 23:31 J -36847542.65 -36847542.52 -36847542.39 0.2633 0.1350

Mercury -105593-06-09 13:26 J -36846260.04 -36846259.94 -36846259.84 0.2698 0.1307

Mercury -105587-06-19 12:28 J -36844058.99 -36844058.98 -36844058.97 0.2716 0.2685

Mercury -105580-06-12 08:38 J -36841509.25 -36841509.14 -36841509.02 0.2703 0.0238

Mercury -105577-11-29 22:19 J -36840242.68 -36840242.57 -36840242.45 0.2643 0.1639

Mercury -105567-06-15 03:35 J -36836758.45 -36836758.35 -36836758.24 0.2707 0.0826

Mercury -105564-12-03 01:55 J -36835491.57 -36835491.42 -36835491.27 0.2637 0.0009

Mercury -105560-06-07 23:16 J -36834208.60 -36834208.53 -36834208.46 0.2694 0.2159

Mercury -105554-06-17 22:33 J -36832007.64 -36832007.56 -36832007.48 0.2712 0.1867

Mercury -105551-12-06 05:45 J -36830740.37 -36830740.26 -36830740.15 0.2632 0.1687

Venus -105549-07-23 05:16 J -36830145.43 -36830145.28 -36830145.13 0.2768 0.0891

Mercury -105547-06-10 18:28 J -36829457.83 -36829457.73 -36829457.62 0.2699 0.1085

Mercury -105534-06-13 13:40 J -36824707.04 -36824706.93 -36824706.82 0.2703 0.0017
 Mercury -105531-12-01 04:33 J -36823440.44 -36823440.31 -36823440.18 0.2642 0.1311
 Mercury -105521-06-15 08:38 J -36819956.24 -36819956.14 -36819956.03 0.2708 0.1039
 Mercury -105518-12-04 08:09 J -36818689.31 -36818689.16 -36818689.02 0.2637 0.0344
 Mercury -105514-06-09 04:19 J -36817406.40 -36817406.32 -36817406.24 0.2694 0.1939
 Mercury -105508-06-18 03:35 J -36815205.42 -36815205.35 -36815205.28 0.2713 0.2084
 Mercury -105505-12-06 11:59 J -36813938.10 -36813938.00 -36813937.91 0.2632 0.2028
 Mercury -105501-06-10 23:31 J -36812655.63 -36812655.52 -36812655.41 0.2699 0.0864
 Mercury -105498-11-29 07:26 J -36811389.21 -36811389.19 -36811389.17 0.2647 0.2606
 Mercury -105488-06-13 18:43 J -36807904.84 -36807904.72 -36807904.61 0.2704 0.0211
 Mercury -105485-12-01 10:47 J -36806638.19 -36806638.05 -36806637.92 0.2641 0.0983
 Mercury -105475-06-16 13:40 J -36803154.03 -36803153.93 -36803153.83 0.2709 0.1255
 Mercury -105472-12-04 14:23 J -36801887.05 -36801886.90 -36801886.76 0.2636 0.0681
 Mercury -105468-06-09 09:21 J -36800604.20 -36800604.11 -36800604.02 0.2695 0.1721
 Mercury -105462-06-19 08:38 J -36798403.20 -36798403.14 -36798403.09 0.2713 0.2301
 Mercury -105459-12-07 18:14 J -36797135.81 -36797135.74 -36797135.68 0.2631 0.2365
 Mercury -105455-06-12 04:33 J -36795853.42 -36795853.31 -36795853.20 0.2700 0.0645
 Mercury -105452-11-29 13:26 J -36794587.01 -36794586.94 -36794586.87 0.2646 0.2283
 Mercury -105442-06-14 23:31 J -36791102.63 -36791102.52 -36791102.40 0.2704 0.0426
 Mercury -105439-12-02 16:47 J -36789835.94 -36789835.80 -36789835.66 0.2641 0.0659
 Mercury -105435-06-07 19:11 J -36788552.73 -36788552.70 -36788552.67 0.2691 0.2581
 Mercury -105429-06-16 18:28 J -36786351.82 -36786351.73 -36786351.63 0.2709 0.1477
 Mercury -105426-12-05 20:23 J -36785084.78 -36785084.65 -36785084.51 0.2636 0.1011
 Mercury -105422-06-10 14:23 J -36783802.00 -36783801.90 -36783801.80 0.2696 0.1497
 Mercury -105416-06-19 13:26 J -36781600.98 -36781600.94 -36781600.90 0.2714 0.2515
 Venus -105411-01-17 23:31 J -36779927.67 -36779927.52 -36779927.36 0.2573 0.0572
 Mercury -105409-06-12 09:35 J -36779051.22 -36779051.10 -36779050.99 0.2700 0.0431
 Mercury -105406-11-30 19:40 J -36777784.78 -36777784.68 -36777784.59 0.2645 0.1965
 Mercury -105396-06-15 04:33 J -36774300.42 -36774300.31 -36774300.20 0.2705 0.0635
 Mercury -105393-12-02 23:02 J -36773033.69 -36773033.54 -36773033.40 0.2640 0.0328

Mercury -105389-06-08 00:14 J -36771750.55 -36771750.49 -36771750.44 0.2691 0.2357
 Mercury -105383-06-17 23:31 J -36769549.61 -36769549.52 -36769549.43 0.2710 0.1687
 Mercury -105380-12-06 02:38 J -36768282.52 -36768282.39 -36768282.26 0.2635 0.1346
 Mercury -105376-06-10 19:26 J -36766999.79 -36766999.69 -36766999.59 0.2696 0.1277
 Mercury -105363-06-13 14:38 J -36762249.01 -36762248.89 -36762248.78 0.2701 0.0219
 Mercury -105360-12-01 01:55 J -36760982.54 -36760982.42 -36760982.31 0.2645 0.1634
 Mercury -105350-06-16 09:35 J -36757498.21 -36757498.10 -36757497.99 0.2706 0.0853
 Mercury -105347-12-04 05:16 J -36756231.43 -36756231.28 -36756231.14 0.2639 0.0073
 Mercury -105343-06-09 05:16 J -36754948.35 -36754948.28 -36754948.22 0.2692 0.2137
 Mercury -105337-06-18 04:33 J -36752747.39 -36752747.31 -36752747.23 0.2710 0.1904
 Mercury -105334-12-07 08:52 J -36751480.24 -36751480.13 -36751480.02 0.2634 0.1686
 Mercury -105330-06-12 00:28 J -36750197.59 -36750197.48 -36750197.38 0.2697 0.1054
 Mercury -105317-06-13 19:40 J -36745446.80 -36745446.68 -36745446.57 0.2702 0.0113
 Mercury -105314-12-02 07:55 J -36744180.30 -36744180.17 -36744180.04 0.2644 0.1307
 Venus -105306-07-24 04:04 J -36741389.47 -36741389.33 -36741389.19 0.2766 0.1284
 Mercury -105304-06-16 14:38 J -36740696.00 -36740695.89 -36740695.79 0.2706 0.1076
 Mercury -105301-12-04 11:31 J -36739429.17 -36739429.02 -36739428.88 0.2639 0.0354
 Mercury -105297-06-09 10:19 J -36738146.15 -36738146.07 -36738145.99 0.2692 0.1915
 Mercury -105291-06-19 09:35 J -36735945.17 -36735945.10 -36735945.03 0.2711 0.2123
 Mercury -105288-12-07 15:07 J -36734677.96 -36734677.87 -36734677.78 0.2634 0.2029
 Mercury -105284-06-12 05:31 J -36733395.38 -36733395.27 -36733395.16 0.2697 0.0837
 Mercury -105281-11-29 10:47 J -36732129.07 -36732129.05 -36732129.02 0.2648 0.2601
 Mercury -105271-06-15 00:28 J -36728644.59 -36728644.48 -36728644.36 0.2702 0.0241
 Mercury -105268-12-02 14:09 J -36727378.05 -36727377.91 -36727377.78 0.2643 0.0981
 Mercury -105258-06-17 19:40 J -36723893.78 -36723893.68 -36723893.58 0.2707 0.1297
 Mercury -105255-12-05 17:31 J -36722626.91 -36722626.77 -36722626.62 0.2638 0.0678
 Mercury -105251-06-10 15:21 J -36721343.95 -36721343.86 -36721343.77 0.2693 0.1690
 Mercury -105245-06-19 14:23 J -36719142.95 -36719142.90 -36719142.84 0.2712 0.2345
 Mercury -105242-12-08 21:21 J -36717875.67 -36717875.61 -36717875.55 0.2633 0.2377
 Mercury -105238-06-13 10:33 J -36716593.18 -36716593.06 -36716592.95 0.2698 0.0623

Mercury -105235-11-30 17:02 J -36715326.87 -36715326.79 -36715326.72 0.2648 0.2284

Mercury -105225-06-15 05:31 J -36711842.38 -36711842.27 -36711842.16 0.2703 0.0452

Mercury -105222-12-03 20:09 J -36710575.80 -36710575.66 -36710575.52 0.2643 0.0655

Mercury -105218-06-09 00:57 J -36709292.49 -36709292.46 -36709292.43 0.2689 0.2554

Mercury -105212-06-18 00:28 J -36707091.57 -36707091.48 -36707091.38 0.2707 0.1513

Mercury -105209-12-05 23:45 J -36705824.65 -36705824.51 -36705824.37 0.2637 0.1015

Mercury -105205-06-10 20:09 J -36704541.75 -36704541.66 -36704541.56 0.2694 0.1473

Mercury -105199-06-20 19:26 J -36702340.72 -36702340.69 -36702340.65 0.2712 0.2555

Mercury -105192-06-13 15:21 J -36699790.97 -36699790.86 -36699790.74 0.2698 0.0401

Mercury -105189-11-30 23:02 J -36698524.64 -36698524.54 -36698524.44 0.2647 0.1958

Mercury -105179-06-16 10:33 J -36695040.17 -36695040.06 -36695039.95 0.2703 0.0674

Mercury -105176-12-04 02:23 J -36693773.55 -36693773.40 -36693773.26 0.2642 0.0331

Mercury -105172-06-09 05:59 J -36692490.31 -36692490.25 -36692490.20 0.2689 0.2336

Venus -105168-01-18 02:52 J -36691171.53 -36691171.38 -36691171.23 0.2575 0.0877

Mercury -105166-06-19 05:31 J -36690289.36 -36690289.27 -36690289.18 0.2708 0.1727

Mercury -105163-12-07 05:45 J -36689022.38 -36689022.26 -36689022.13 0.2637 0.1348

Venus -105160-01-15 20:09 J -36688251.72 -36688251.66 -36688251.61 0.2577 0.2392

Mercury -105159-06-12 01:11 J -36687739.55 -36687739.45 -36687739.35 0.2694 0.1251

Mercury -105146-06-14 20:23 J -36682988.76 -36682988.65 -36682988.53 0.2699 0.0177

Mercury -105143-12-02 05:02 J -36681722.40 -36681722.29 -36681722.17 0.2647 0.1639

Mercury -105133-06-16 15:35 J -36678237.96 -36678237.85 -36678237.75 0.2704 0.0895

Mercury -105130-12-05 08:23 J -36676971.29 -36676971.15 -36676971.00 0.2641 0.0072

Mercury -105126-06-10 11:02 J -36675688.11 -36675688.04 -36675687.97 0.2690 0.2109

Mercury -105120-06-19 10:33 J -36673487.14 -36673487.06 -36673486.98 0.2709 0.1948

Mercury -105117-12-07 11:59 J -36672220.11 -36672220.00 -36672219.88 0.2636 0.1692

Mercury -105113-06-12 06:14 J -36670937.34 -36670937.24 -36670937.13 0.2695 0.1030

Mercury -105100-06-15 01:26 J -36666186.56 -36666186.44 -36666186.33 0.2700 0.0046

Mercury -105097-12-02 11:16 J -36664920.16 -36664920.03 -36664919.90 0.2646 0.1308

Mercury -105087-06-17 20:23 J -36661435.75 -36661435.65 -36661435.54 0.2704 0.1117

Mercury -105084-12-05 14:38 J -36660169.04 -36660168.89 -36660168.74 0.2641 0.0340

Mercury	-105080-06-10 16:04 J	-36658885.91	-36658885.83	-36658885.75	0.2691	0.1885
Mercury	-105074-06-20 15:35 J	-36656684.92	-36656684.85	-36656684.79	0.2709	0.2168
Venus	-105071-07-26 13:26 J	-36655552.97	-36655552.94	-36655552.91	0.2767	0.2703
Mercury	-105071-12-08 18:14 J	-36655417.83	-36655417.74	-36655417.64	0.2636	0.2034
Mercury	-105067-06-13 11:16 J	-36654135.14	-36654135.03	-36654134.92	0.2695	0.0802
Mercury	-105064-11-30 14:23 J	-36652868.93	-36652868.90	-36652868.88	0.2650	0.2597
Venus	-105063-07-24 02:38 J	-36652633.51	-36652633.39	-36652633.27	0.2764	0.1698
Mercury	-105054-06-16 06:28 J	-36649384.35	-36649384.23	-36649384.12	0.2700	0.0268
Mercury	-105051-12-03 17:31 J	-36648117.91	-36648117.77	-36648117.64	0.2645	0.0983
Mercury	-105041-06-18 01:26 J	-36644633.54	-36644633.44	-36644633.34	0.2705	0.1332
Mercury	-105038-12-06 20:52 J	-36643366.77	-36643366.63	-36643366.49	0.2640	0.0681
Mercury	-105034-06-11 21:07 J	-36642083.71	-36642083.62	-36642083.53	0.2691	0.1662
Mercury	-105028-06-20 20:23 J	-36639882.70	-36639882.65	-36639882.60	0.2710	0.2380
Mercury	-105025-12-09 00:28 J	-36638615.54	-36638615.48	-36638615.42	0.2635	0.2372
Mercury	-105021-06-13 16:19 J	-36637332.93	-36637332.82	-36637332.71	0.2696	0.0582
Mercury	-105018-12-01 20:23 J	-36636066.72	-36636066.65	-36636066.57	0.2650	0.2276
Mercury	-105008-06-16 11:31 J	-36632582.13	-36632582.02	-36632581.91	0.2701	0.0495
Mercury	-105005-12-03 23:31 J	-36631315.66	-36631315.52	-36631315.38	0.2645	0.0650
Mercury	-105001-06-09 06:43 J	-36630032.25	-36630032.22	-36630032.18	0.2687	0.2532

105TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 105th millennium BCE.

PLANET	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
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TRANSIT

TIME

Mercury -104995-06-19 06:28 J -36627831.32 -36627831.23 -36627831.14 0.2706 0.1549
Mercury -104992-12-07 03:07 J -36626564.51 -36626564.37 -36626564.24 0.2639 0.1018
Mercury -104988-06-12 02:09 J -36625281.51 -36625281.41 -36625281.32 0.2692 0.1444
Mercury -104982-06-22 01:26 J -36623080.47 -36623080.44 -36623080.41 0.2710 0.2597
Mercury -104975-06-14 21:21 J -36620530.72 -36620530.61 -36620530.50 0.2697 0.0359
Mercury -104972-12-02 02:23 J -36619264.49 -36619264.40 -36619264.30 0.2649 0.1958
Mercury -104962-06-17 16:33 J -36615779.92 -36615779.81 -36615779.70 0.2701 0.0716
Mercury -104959-12-05 05:45 J -36614513.41 -36614513.26 -36614513.12 0.2644 0.0321
Mercury -104955-06-10 11:45 J -36613230.07 -36613230.01 -36613229.95 0.2688 0.2307
Mercury -104949-06-19 11:31 J -36611029.11 -36611029.02 -36611028.94 0.2706 0.1771
Mercury -104946-12-08 09:07 J -36609762.24 -36609762.12 -36609761.99 0.2639 0.1359
Mercury -104942-06-13 07:11 J -36608479.31 -36608479.20 -36608479.10 0.2692 0.1221
Mercury -104929-06-15 02:23 J -36603728.52 -36603728.40 -36603728.29 0.2697 0.0150
Mercury -104926-12-03 08:38 J -36602462.26 -36602462.14 -36602462.03 0.2648 0.1636
Venus -104925-01-19 06:14 J -36602415.39 -36602415.24 -36602415.10 0.2577 0.1199
Venus -104917-01-16 23:16 J -36599495.62 -36599495.53 -36599495.44 0.2579 0.2094
Mercury -104916-06-17 21:21 J -36598977.71 -36598977.61 -36598977.50 0.2702 0.0934
Mercury -104913-12-05 11:45 J -36597711.16 -36597711.01 -36597710.86 0.2643 0.0024
Mercury -104909-06-10 16:47 J -36596427.87 -36596427.80 -36596427.73 0.2688 0.2085
Mercury -104903-06-20 16:33 J -36594226.89 -36594226.81 -36594226.74 0.2707 0.1991
Mercury -104900-12-08 15:21 J -36592959.97 -36592959.86 -36592959.75 0.2638 0.1693
Mercury -104896-06-13 12:14 J -36591677.10 -36591676.99 -36591676.89 0.2693 0.0996
Mercury -104883-06-16 07:26 J -36586926.31 -36586926.19 -36586926.08 0.2698 0.0116
Mercury -104880-12-03 14:38 J -36585660.02 -36585659.89 -36585659.76 0.2648 0.1310
Mercury -104870-06-19 02:23 J -36582175.50 -36582175.40 -36582175.30 0.2703 0.1150
Mercury -104867-12-06 17:59 J -36580908.90 -36580908.75 -36580908.60 0.2643 0.0345
Mercury -104863-06-11 21:50 J -36579625.67 -36579625.59 -36579625.51 0.2689 0.1859
Mercury -104857-06-20 21:21 J -36577424.67 -36577424.61 -36577424.54 0.2707 0.2207

Mercury -104854-12-09 21:35 J -36576157.69 -36576157.60 -36576157.51 0.2637 0.2036

Mercury -104850-06-14 17:16 J -36574874.89 -36574874.78 -36574874.67 0.2694 0.0778

Mercury -104847-12-01 17:45 J -36573608.78 -36573608.76 -36573608.73 0.2652 0.2600

Mercury -104837-06-16 12:28 J -36570124.10 -36570123.98 -36570123.87 0.2698 0.0323

Mercury -104834-12-04 20:52 J -36568857.77 -36568857.63 -36568857.50 0.2647 0.0982

Venus -104828-07-26 12:14 J -36566797.07 -36566796.99 -36566796.90 0.2764 0.2313

Mercury -104824-06-19 07:26 J -36565373.29 -36565373.19 -36565373.09 0.2703 0.1374

Mercury -104821-12-06 23:59 J -36564106.64 -36564106.50 -36564106.35 0.2642 0.0685

Venus -104820-07-24 01:40 J -36563877.54 -36563877.43 -36563877.33 0.2761 0.2066

Mercury -104817-06-12 02:52 J -36562823.47 -36562823.38 -36562823.29 0.2690 0.1637

Mercury -104811-06-22 02:23 J -36560622.45 -36560622.40 -36560622.35 0.2708 0.2424

Mercury -104808-12-10 03:50 J -36559355.40 -36559355.34 -36559355.28 0.2637 0.2377

Mercury -104804-06-14 22:18 J -36558072.69 -36558072.57 -36558072.46 0.2694 0.0558

Mercury -104801-12-01 23:45 J -36556806.58 -36556806.51 -36556806.43 0.2652 0.2279

Mercury -104791-06-17 17:16 J -36553321.89 -36553321.78 -36553321.66 0.2699 0.0534

Mercury -104788-12-05 02:52 J -36552055.52 -36552055.38 -36552055.24 0.2647 0.0651

Mercury -104784-06-10 12:42 J -36550772.01 -36550771.97 -36550771.94 0.2685 0.2505

Mercury -104778-06-20 12:28 J -36548571.07 -36548570.98 -36548570.89 0.2704 0.1593

Mercury -104775-12-08 06:14 J -36547304.37 -36547304.24 -36547304.10 0.2641 0.1021

Mercury -104771-06-13 07:54 J -36546021.27 -36546021.17 -36546021.07 0.2690 0.1410

Mercury -104765-06-22 07:26 J -36543820.21 -36543820.19 -36543820.17 0.2708 0.2647

Mercury -104758-06-16 03:06 J -36541270.48 -36541270.37 -36541270.25 0.2695 0.0341

Mercury -104755-12-03 05:59 J -36540004.35 -36540004.25 -36540004.15 0.2651 0.1953

Mercury -104745-06-17 22:18 J -36536519.68 -36536519.57 -36536519.46 0.2700 0.0747

Mercury -104742-12-06 09:06 J -36535253.27 -36535253.12 -36535252.98 0.2646 0.0322

Mercury -104738-06-11 17:45 J -36533969.82 -36533969.76 -36533969.70 0.2686 0.2281

Mercury -104732-06-20 17:16 J -36531768.86 -36531768.78 -36531768.69 0.2704 0.1813

Mercury -104729-12-08 12:28 J -36530502.11 -36530501.98 -36530501.86 0.2641 0.1356

Mercury -104725-06-13 12:57 J -36529219.06 -36529218.96 -36529218.85 0.2691 0.1185

Mercury -104712-06-16 08:09 J -36524468.27 -36524468.16 -36524468.04 0.2695 0.0120

Mercury -104709-12-03 11:59 J -36523202.11 -36523202.00 -36523201.88 0.2650 0.1631

Mercury -104699-06-19 03:21 J -36519717.47 -36519717.36 -36519717.25 0.2700 0.0969

Mercury -104696-12-06 15:06 J -36518451.01 -36518450.87 -36518450.72 0.2645 0.0060

Mercury -104692-06-11 22:47 J -36517167.63 -36517167.55 -36517167.48 0.2686 0.2056

Mercury -104686-06-21 22:18 J -36514966.64 -36514966.57 -36514966.49 0.2705 0.2029

Mercury -104683-12-09 18:42 J -36513699.83 -36513699.72 -36513699.61 0.2640 0.1700

Venus -104682-01-19 09:21 J -36513659.24 -36513659.11 -36513658.98 0.2579 0.1501

Mercury -104679-06-14 17:59 J -36512416.86 -36512416.75 -36512416.64 0.2691 0.0962

Venus -104674-01-17 02:23 J -36510739.52 -36510739.40 -36510739.29 0.2581 0.1810

Mercury -104666-06-17 13:11 J -36507666.06 -36507665.95 -36507665.83 0.2696 0.0129

Mercury -104663-12-04 18:14 J -36506399.87 -36506399.74 -36506399.62 0.2650 0.1307

Mercury -104653-06-19 08:23 J -36502915.25 -36502915.15 -36502915.05 0.2701 0.1195

Mercury -104650-12-07 21:21 J -36501648.76 -36501648.61 -36501648.47 0.2645 0.0351

Mercury -104646-06-13 03:50 J -36500365.43 -36500365.34 -36500365.26 0.2687 0.1831

Mercury -104640-06-22 03:21 J -36498164.42 -36498164.36 -36498164.30 0.2706 0.2250

Mercury -104637-12-10 00:42 J -36496897.56 -36496897.47 -36496897.37 0.2640 0.2042

Mercury -104633-06-14 23:02 J -36495614.65 -36495614.54 -36495614.43 0.2692 0.0738

Mercury -104630-12-02 21:21 J -36494348.64 -36494348.61 -36494348.59 0.2654 0.2599

Mercury -104620-06-17 18:14 J -36490863.85 -36490863.74 -36490863.62 0.2697 0.0346

Mercury -104617-12-05 00:14 J -36489597.63 -36489597.49 -36489597.35 0.2649 0.0974

Mercury -104607-06-20 13:26 J -36486113.04 -36486112.94 -36486112.85 0.2701 0.1415

Mercury -104604-12-08 03:35 J -36484846.50 -36484846.35 -36484846.21 0.2644 0.0692

Mercury -104600-06-13 08:52 J -36483563.23 -36483563.13 -36483563.04 0.2687 0.1604

Mercury -104594-06-23 08:23 J -36481362.19 -36481362.15 -36481362.11 0.2706 0.2474

Mercury -104591-12-11 06:57 J -36480095.27 -36480095.21 -36480095.15 0.2639 0.2387

Mercury -104587-06-16 04:04 J -36478812.44 -36478812.33 -36478812.22 0.2692 0.0511

Venus -104585-07-26 11:02 J -36478041.15 -36478041.04 -36478040.93 0.2762 0.1922

Mercury -104584-12-03 03:21 J -36477546.43 -36477546.36 -36477546.29 0.2654 0.2274

Venus -104577-07-24 00:14 J -36475121.56 -36475121.49 -36475121.43 0.2758 0.2490

Mercury -104574-06-18 23:16 J -36474061.64 -36474061.53 -36474061.42 0.2697 0.0566

Mercury -104571-12-06 06:14 J -36472795.38 -36472795.24 -36472795.09 0.2648 0.0651

Mercury -104567-06-11 18:28 J -36471511.77 -36471511.73 -36471511.69 0.2683 0.2477

Mercury -104561-06-20 18:14 J -36469310.83 -36469310.74 -36469310.65 0.2702 0.1639

Mercury -104558-12-09 09:35 J -36468044.24 -36468044.10 -36468043.96 0.2643 0.1025

Mercury -104554-06-14 13:54 J -36466761.02 -36466760.92 -36466760.82 0.2688 0.1378

Mercury -104548-06-23 13:26 J -36464559.95 -36464559.94 -36464559.94 0.2707 0.2692

Mercury -104541-06-16 09:06 J -36462010.24 -36462010.12 -36462010.01 0.2693 0.0287

Mercury -104538-12-04 09:21 J -36460744.20 -36460744.11 -36460744.01 0.2653 0.1956

Mercury -104528-06-19 04:18 J -36457259.43 -36457259.32 -36457259.21 0.2698 0.0792

Mercury -104525-12-06 12:28 J -36455993.13 -36455992.98 -36455992.84 0.2648 0.0317

Mercury -104521-06-11 23:30 J -36454709.58 -36454709.52 -36454709.46 0.2684 0.2250

Mercury -104515-06-21 23:16 J -36452508.61 -36452508.53 -36452508.45 0.2703 0.1855

Mercury -104512-12-09 15:50 J -36451241.97 -36451241.84 -36451241.72 0.2643 0.1363

Mercury -104508-06-14 18:57 J -36449958.82 -36449958.71 -36449958.61 0.2689 0.1156

Mercury -104495-06-17 14:09 J -36445208.03 -36445207.91 -36445207.80 0.2694 0.0086

Mercury -104492-12-04 15:35 J -36443941.97 -36443941.85 -36443941.74 0.2652 0.1629

Mercury -104482-06-20 09:21 J -36440457.22 -36440457.11 -36440457.01 0.2698 0.1016

Mercury -104479-12-07 18:28 J -36439190.87 -36439190.73 -36439190.58 0.2647 0.0033

Mercury -104475-06-13 04:33 J -36437907.39 -36437907.31 -36437907.24 0.2685 0.2022

Mercury -104469-06-22 04:18 J -36435706.39 -36435706.32 -36435706.25 0.2703 0.2077

Mercury -104466-12-10 21:50 J -36434439.70 -36434439.59 -36434439.48 0.2642 0.1700

Mercury -104462-06-15 23:45 J -36433156.61 -36433156.51 -36433156.40 0.2689 0.0934

Mercury -104449-06-17 19:11 J -36428405.82 -36428405.70 -36428405.59 0.2694 0.0181

Mercury -104446-12-05 21:35 J -36427139.73 -36427139.60 -36427139.47 0.2652 0.1299

Venus -104439-01-19 12:28 J -36424903.09 -36424902.98 -36424902.86 0.2581 0.1796

Mercury -104436-06-20 14:09 J -36423655.01 -36423654.91 -36423654.80 0.2699 0.1235

Mercury -104433-12-08 00:42 J -36422388.62 -36422388.47 -36422388.33 0.2647 0.0356

Venus -104431-01-17 05:45 J -36421983.39 -36421983.26 -36421983.13 0.2583 0.1516

Mercury -104429-06-13 09:35 J -36421105.19 -36421105.10 -36421105.02 0.2685 0.1797

Mercury -104423-06-23 09:21 J -36418904.17 -36418904.11 -36418904.05 0.2704 0.2297

Mercury -104420-12-11 04:04 J -36417637.42 -36417637.33 -36417637.24 0.2641 0.2042

Mercury -104416-06-16 04:47 J -36416354.41 -36416354.30 -36416354.18 0.2690 0.0707

Mercury -104413-12-03 00:57 J -36415088.49 -36415088.46 -36415088.44 0.2656 0.2591

Mercury -104403-06-19 00:14 J -36411603.61 -36411603.49 -36411603.38 0.2695 0.0396

Mercury -104400-12-06 03:35 J -36410337.48 -36410337.35 -36410337.21 0.2651 0.0974

Mercury -104396-06-11 19:11 J -36409053.70 -36409053.70 -36409053.70 0.2681 0.2674

Mercury -104390-06-21 19:11 J -36406852.79 -36406852.70 -36406852.60 0.2700 0.1457

Mercury -104387-12-09 06:42 J -36405586.36 -36405586.22 -36405586.07 0.2646 0.0696

Mercury -104383-06-14 14:38 J -36404302.98 -36404302.89 -36404302.80 0.2686 0.1568

Mercury -104377-06-23 14:23 J -36402101.94 -36402101.90 -36402101.87 0.2704 0.2520

Mercury -104374-12-12 10:18 J -36400835.13 -36400835.07 -36400835.01 0.2641 0.2391

Mercury -104370-06-17 09:50 J -36399552.20 -36399552.09 -36399551.97 0.2691 0.0485

Mercury -104367-12-04 06:57 J -36398286.28 -36398286.21 -36398286.14 0.2656 0.2273

Mercury -104357-06-19 05:02 J -36394801.40 -36394801.29 -36394801.17 0.2695 0.0619

Mercury -104354-12-07 09:50 J -36393535.23 -36393535.09 -36393534.95 0.2650 0.0641

Mercury -104350-06-13 00:14 J -36392251.53 -36392251.49 -36392251.44 0.2682 0.2444

Mercury -104344-06-22 00:14 J -36390050.58 -36390050.49 -36390050.40 0.2700 0.1680

Venus -104342-07-27 09:50 J -36389285.22 -36389285.09 -36389284.96 0.2759 0.1544

Mercury -104341-12-09 12:57 J -36388784.09 -36388783.96 -36388783.82 0.2645 0.1033

Mercury -104337-06-14 19:40 J -36387500.78 -36387500.68 -36387500.58 0.2686 0.1341

Mercury -104324-06-17 14:52 J -36382749.99 -36382749.88 -36382749.76 0.2691 0.0265

Mercury -104321-12-04 12:57 J -36381484.06 -36381483.96 -36381483.86 0.2655 0.1943

Mercury -104311-06-20 10:04 J -36377999.18 -36377999.08 -36377998.97 0.2696 0.0840

Mercury -104308-12-07 15:50 J -36376732.98 -36376732.84 -36376732.69 0.2650 0.0311

Mercury -104304-06-13 05:16 J -36375449.34 -36375449.28 -36375449.21 0.2682 0.2218

Mercury -104298-06-23 05:16 J -36373248.36 -36373248.28 -36373248.20 0.2701 0.1905

Mercury -104295-12-10 19:11 J -36371981.83 -36371981.70 -36371981.58 0.2645 0.1370

Mercury -104291-06-16 00:42 J -36370698.58 -36370698.47 -36370698.37 0.2687 0.1116

Mercury -104278-06-18 19:54 J -36365947.78 -36365947.67 -36365947.55 0.2692 0.0073

Mercury -104275-12-05 18:57 J -36364681.82 -36364681.71 -36364681.59 0.2654 0.1624

Mercury -104265-06-20 15:06 J -36361196.97 -36361196.87 -36361196.76 0.2697 0.1059

Mercury -104262-12-08 22:04 J -36359930.73 -36359930.58 -36359930.44 0.2649 0.0068

Mercury -104258-06-14 10:18 J -36358647.15 -36358647.07 -36358646.99 0.2683 0.1992

Mercury -104252-06-23 10:18 J -36356446.14 -36356446.07 -36356446.00 0.2701 0.2124

Mercury -104249-12-11 01:11 J -36355179.56 -36355179.45 -36355179.34 0.2644 0.1709

Mercury -104245-06-16 05:45 J -36353896.37 -36353896.26 -36353896.15 0.2688 0.0892

Mercury -104232-06-19 00:57 J -36349145.57 -36349145.46 -36349145.34 0.2692 0.0207

Mercury -104229-12-06 00:57 J -36347879.58 -36347879.46 -36347879.33 0.2654 0.1299

Mercury -104219-06-21 20:09 J -36344394.76 -36344394.66 -36344394.56 0.2697 0.1278

Mercury -104216-12-09 04:04 J -36343128.48 -36343128.33 -36343128.19 0.2648 0.0356

Mercury -104212-06-14 15:21 J -36341844.95 -36341844.86 -36341844.77 0.2683 0.1764

Mercury -104206-06-24 15:06 J -36339643.92 -36339643.87 -36339643.81 0.2702 0.2350

Mercury -104203-12-12 07:26 J -36338377.28 -36338377.19 -36338377.10 0.2643 0.2051

Mercury -104199-06-17 10:47 J -36337094.16 -36337094.05 -36337093.94 0.2688 0.0665

Venus -104196-01-19 15:35 J -36336146.94 -36336146.85 -36336146.75 0.2583 0.2103

Mercury -104196-12-04 04:18 J -36335828.35 -36335828.32 -36335828.29 0.2658 0.2591

Venus -104188-01-17 08:38 J -36333227.28 -36333227.14 -36333227.00 0.2586 0.1254

Mercury -104186-06-20 05:59 J -36332343.36 -36332343.25 -36332343.13 0.2693 0.0425

Mercury -104183-12-07 07:11 J -36331077.34 -36331077.20 -36331077.07 0.2653 0.0975

Mercury -104179-06-13 00:57 J -36329793.47 -36329793.46 -36329793.44 0.2679 0.2642

Mercury -104173-06-22 01:11 J -36327592.55 -36327592.45 -36327592.36 0.2698 0.1504

Mercury -104170-12-10 10:04 J -36326326.22 -36326326.08 -36326325.93 0.2648 0.0698

Mercury -104166-06-15 20:23 J -36325042.74 -36325042.65 -36325042.55 0.2684 0.1535

Mercury -104160-06-24 20:09 J -36322841.69 -36322841.66 -36322841.62 0.2702 0.2568

Mercury -104157-12-12 13:40 J -36321574.99 -36321574.93 -36321574.87 0.2643 0.2394

Mercury -104153-06-17 15:50 J -36320291.96 -36320291.84 -36320291.73 0.2689 0.0437

Mercury -104150-12-05 10:33 J -36319026.14 -36319026.06 -36319025.99 0.2658 0.2261

Mercury -104140-06-20 11:02 J -36315541.15 -36315541.04 -36315540.93 0.2694 0.0651

Mercury -104137-12-07 13:11 J -36314275.09 -36314274.95 -36314274.81 0.2652 0.0636

Mercury -104133-06-13 05:59 J -36312991.30 -36312991.25 -36312991.20 0.2680 0.2416

Mercury -104127-06-23 06:14 J -36310790.33 -36310790.24 -36310790.16 0.2698 0.1728

Mercury -104124-12-10 16:18 J -36309523.96 -36309523.82 -36309523.69 0.2647 0.1030

Mercury -104120-06-16 01:26 J -36308240.54 -36308240.44 -36308240.34 0.2685 0.1307

Mercury -104107-06-18 20:52 J -36303489.75 -36303489.63 -36303489.52 0.2689 0.0209

Mercury -104104-12-05 16:33 J -36302223.91 -36302223.81 -36302223.71 0.2657 0.1941

Venus -104099-07-27 08:52 J -36300529.27 -36300529.13 -36300528.99 0.2756 0.1185

Mercury -104094-06-21 16:04 J -36298738.94 -36298738.83 -36298738.72 0.2694 0.0879

Mercury -104091-12-08 19:26 J -36297472.84 -36297472.69 -36297472.55 0.2652 0.0301

Mercury -104087-06-14 11:02 J -36296189.10 -36296189.04 -36296188.97 0.2680 0.2185

Mercury -104081-06-23 11:16 J -36293988.11 -36293988.03 -36293987.96 0.2699 0.1952

Mercury -104078-12-11 22:33 J -36292721.69 -36292721.56 -36292721.44 0.2647 0.1380

Mercury -104074-06-17 06:28 J -36291438.33 -36291438.23 -36291438.12 0.2685 0.1082

Mercury -104061-06-19 01:54 J -36286687.54 -36286687.42 -36286687.31 0.2690 0.0033

Mercury -104058-12-06 22:33 J -36285421.67 -36285421.56 -36285421.45 0.2656 0.1613

Mercury -104048-06-21 21:06 J -36281936.73 -36281936.62 -36281936.52 0.2695 0.1103

Mercury -104045-12-09 01:26 J -36280670.59 -36280670.44 -36280670.29 0.2651 0.0032

Mercury -104041-06-14 16:04 J -36279386.90 -36279386.83 -36279386.75 0.2681 0.1958

Mercury -104035-06-24 16:04 J -36277185.89 -36277185.83 -36277185.76 0.2700 0.2178

Mercury -104032-12-12 04:33 J -36275919.42 -36275919.31 -36275919.20 0.2646 0.1719

Mercury -104028-06-17 11:30 J -36274636.13 -36274636.02 -36274635.91 0.2686 0.0853

Mercury -104015-06-20 06:57 J -36269885.33 -36269885.21 -36269885.10 0.2691 0.0249

Mercury -104012-12-07 04:33 J -36268619.44 -36268619.31 -36268619.18 0.2656 0.1293

Mercury -104002-06-23 02:09 J -36265134.51 -36265134.41 -36265134.31 0.2695 0.1329

104TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 104th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-103999-12-10 07:26 J	-36263868.33	-36263868.19	-36263868.04	0.2650	0.0369		
Mercury	-103995-06-15 21:06 J	-36262584.70	-36262584.62	-36262584.53	0.2681	0.1728		
Mercury	-103989-06-24 21:06 J	-36260383.67	-36260383.62	-36260383.57	0.2700	0.2397		
Mercury	-103986-12-13 10:47 J	-36259117.14	-36259117.05	-36259116.96	0.2645	0.2060		
Mercury	-103982-06-18 16:33 J	-36257833.92	-36257833.81	-36257833.69	0.2686	0.0626		
Mercury	-103979-12-05 07:54 J	-36256568.20	-36256568.17	-36256568.13	0.2660	0.2582		
Mercury	-103969-06-20 11:59 J	-36253083.12	-36253083.00	-36253082.89	0.2691	0.0477		
Mercury	-103966-12-08 10:33 J	-36251817.19	-36251817.06	-36251816.92	0.2655	0.0961		
Mercury	-103962-06-14 06:42 J	-36250533.24	-36250533.22	-36250533.20	0.2677	0.2616		
Mercury	-103956-06-23 07:11 J	-36248332.30	-36248332.20	-36248332.11	0.2696	0.1554		
Venus	-103953-01-20 18:42 J	-36247390.78	-36247390.72	-36247390.66	0.2585	0.2378		
Mercury	-103953-12-10 13:40 J	-36247066.07	-36247065.93	-36247065.79	0.2650	0.0702		
Mercury	-103949-06-16 02:23 J	-36245782.50	-36245782.40	-36245782.31	0.2682	0.1503		
Venus	-103945-01-18 11:45 J	-36244471.16	-36244471.01	-36244470.86	0.2588	0.0962		
Mercury	-103943-06-26 02:09 J	-36243581.43	-36243581.41	-36243581.38	0.2701	0.2620		
Mercury	-103940-12-13 16:47 J	-36242314.86	-36242314.80	-36242314.74	0.2645	0.2402		
Mercury	-103936-06-18 21:35 J	-36241031.71	-36241031.60	-36241031.48	0.2687	0.0399		
Mercury	-103933-12-05 13:54 J	-36239765.99	-36239765.92	-36239765.84	0.2660	0.2263		
Mercury	-103923-06-21 17:02 J	-36236280.91	-36236280.79	-36236280.68	0.2692	0.0704		
Mercury	-103920-12-08 16:47 J	-36235014.94	-36235014.80	-36235014.66	0.2654	0.0633		
Mercury	-103916-06-14 11:45 J	-36233731.06	-36233731.01	-36233730.95	0.2678	0.2381		
Mercury	-103910-06-24 11:59 J	-36231530.08	-36231530.00	-36231529.91	0.2697	0.1781		

Mercury -103907-12-11 19:40 J -36230263.81 -36230263.68 -36230263.54 0.2649 0.1046
 Mercury -103903-06-17 07:26 J -36228980.30 -36228980.19 -36228980.09 0.2683 0.1272
 Mercury -103890-06-20 02:38 J -36224229.50 -36224229.39 -36224229.27 0.2688 0.0179
 Mercury -103887-12-06 20:09 J -36222963.76 -36222963.66 -36222963.57 0.2659 0.1937
 Mercury -103877-06-21 21:50 J -36219478.69 -36219478.59 -36219478.48 0.2692 0.0931
 Mercury -103874-12-09 22:47 J -36218212.70 -36218212.55 -36218212.41 0.2654 0.0297
 Mercury -103870-06-15 17:02 J -36216928.86 -36216928.79 -36216928.73 0.2679 0.2151
 Mercury -103864-06-24 17:02 J -36214727.86 -36214727.79 -36214727.71 0.2697 0.2003
 Mercury -103861-12-12 01:54 J -36213461.55 -36213461.42 -36213461.30 0.2649 0.1382
 Mercury -103857-06-17 12:28 J -36212178.09 -36212177.98 -36212177.87 0.2683 0.1037
 Venus -103856-07-27 07:54 J -36211773.32 -36211773.17 -36211773.02 0.2754 0.0834
 Mercury -103844-06-20 07:40 J -36207427.29 -36207427.18 -36207427.06 0.2688 0.0089
 Mercury -103841-12-07 02:09 J -36206161.53 -36206161.41 -36206161.30 0.2658 0.1609
 Mercury -103831-06-23 02:52 J -36202676.48 -36202676.38 -36202676.27 0.2693 0.1152
 Mercury -103828-12-10 04:47 J -36201410.44 -36201410.30 -36201410.15 0.2653 0.0054
 Mercury -103824-06-15 22:04 J -36200126.66 -36200126.58 -36200126.50 0.2679 0.1917
 Mercury -103818-06-25 22:04 J -36197925.64 -36197925.58 -36197925.52 0.2698 0.2225
 Mercury -103815-12-13 07:54 J -36196659.28 -36196659.17 -36196659.06 0.2648 0.1725
 Mercury -103811-06-18 17:30 J -36195375.88 -36195375.77 -36195375.66 0.2684 0.0809
 Mercury -103798-06-21 12:42 J -36190625.08 -36190624.97 -36190624.85 0.2689 0.0296
 Mercury -103795-12-08 08:09 J -36189359.28 -36189359.16 -36189359.03 0.2658 0.1277
 Mercury -103785-06-23 07:54 J -36185874.26 -36185874.17 -36185874.07 0.2694 0.1379
 Mercury -103782-12-11 11:02 J -36184608.19 -36184608.04 -36184607.90 0.2652 0.0378
 Mercury -103778-06-17 03:06 J -36183324.46 -36183324.37 -36183324.28 0.2680 0.1691
 Mercury -103772-06-26 03:06 J -36181123.42 -36181123.37 -36181123.33 0.2698 0.2446
 Mercury -103769-12-13 14:09 J -36179857.00 -36179856.91 -36179856.82 0.2647 0.2066
 Mercury -103765-06-18 22:33 J -36178573.68 -36178573.56 -36178573.45 0.2685 0.0583
 Mercury -103762-12-06 11:30 J -36177308.05 -36177308.02 -36177307.98 0.2662 0.2575
 Mercury -103752-06-21 17:45 J -36173822.87 -36173822.76 -36173822.64 0.2689 0.0520
 Mercury -103749-12-08 14:09 J -36172557.04 -36172556.91 -36172556.77 0.2657 0.0952

Mercury -103745-06-14 12:28 J -36171273.00 -36171272.98 -36171272.95 0.2676 0.2577

Mercury -103739-06-24 12:57 J -36169072.05 -36169071.96 -36169071.87 0.2694 0.1603

Mercury -103736-12-11 17:02 J -36167805.93 -36167805.79 -36167805.65 0.2652 0.0717

Mercury -103732-06-17 08:09 J -36166522.26 -36166522.16 -36166522.06 0.2680 0.1458

Mercury -103726-06-27 08:09 J -36164321.17 -36164321.16 -36164321.15 0.2699 0.2672

Mercury -103723-12-14 20:09 J -36163054.71 -36163054.66 -36163054.60 0.2647 0.2418

Mercury -103719-06-20 03:35 J -36161771.47 -36161771.35 -36161771.24 0.2685 0.0359

Mercury -103716-12-06 17:30 J -36160505.84 -36160505.77 -36160505.69 0.2662 0.2255

Mercury -103706-06-22 22:47 J -36157020.66 -36157020.55 -36157020.44 0.2690 0.0745

Mercury -103703-12-09 20:09 J -36155754.80 -36155754.66 -36155754.52 0.2656 0.0623

Venus -103702-01-18 14:38 J -36155715.04 -36155714.89 -36155714.73 0.2590 0.0719

Mercury -103699-06-15 17:45 J -36154470.82 -36154470.76 -36154470.71 0.2676 0.2346

Mercury -103693-06-24 17:59 J -36152269.83 -36152269.75 -36152269.67 0.2695 0.1827

Mercury -103690-12-12 23:02 J -36151003.67 -36151003.54 -36151003.40 0.2651 0.1054

Mercury -103686-06-18 13:11 J -36149720.05 -36149719.95 -36149719.85 0.2681 0.1226

Mercury -103673-06-20 08:38 J -36144969.26 -36144969.14 -36144969.03 0.2686 0.0130

Mercury -103670-12-07 23:30 J -36143703.61 -36143703.52 -36143703.42 0.2661 0.1931

Mercury -103660-06-23 03:50 J -36140218.45 -36140218.34 -36140218.23 0.2691 0.0971

Mercury -103657-12-10 02:09 J -36138952.55 -36138952.41 -36138952.26 0.2656 0.0302

Mercury -103653-06-15 22:47 J -36137668.62 -36137668.55 -36137668.48 0.2677 0.2115

Mercury -103647-06-25 23:02 J -36135467.61 -36135467.54 -36135467.47 0.2695 0.2053

Mercury -103644-12-13 05:16 J -36134201.40 -36134201.28 -36134201.16 0.2650 0.1393

Mercury -103640-06-18 18:14 J -36132917.85 -36132917.74 -36132917.63 0.2681 0.0995

Mercury -103627-06-21 13:40 J -36128167.05 -36128166.93 -36128166.82 0.2686 0.0120

Mercury -103624-12-08 05:45 J -36126901.38 -36126901.26 -36126901.15 0.2660 0.1602

Mercury -103614-06-24 08:52 J -36123416.23 -36123416.13 -36123416.03 0.2691 0.1202

Venus -103613-07-27 07:11 J -36123017.35 -36123017.20 -36123017.05 0.2750 0.0500

Mercury -103611-12-11 08:23 J -36122150.30 -36122150.15 -36122150.01 0.2655 0.0051

Mercury -103607-06-17 03:50 J -36120866.42 -36120866.34 -36120866.26 0.2677 0.1882

Mercury -103601-06-26 04:04 J -36118665.39 -36118665.33 -36118665.27 0.2696 0.2278

Mercury -103598-12-14 11:16 J -36117399.14 -36117399.03 -36117398.92 0.2650 0.1731

Mercury -103594-06-19 23:16 J -36116115.64 -36116115.53 -36116115.42 0.2682 0.0769

Mercury -103581-06-21 18:42 J -36111364.84 -36111364.72 -36111364.61 0.2687 0.0343

Mercury -103578-12-09 11:45 J -36110099.14 -36110099.01 -36110098.89 0.2660 0.1277

Mercury -103568-06-24 13:54 J -36106614.02 -36106613.92 -36106613.82 0.2692 0.1426

Mercury -103565-12-11 14:23 J -36105348.04 -36105347.90 -36105347.75 0.2654 0.0384

Mercury -103561-06-17 08:52 J -36104064.22 -36104064.13 -36104064.04 0.2678 0.1647

Mercury -103555-06-27 09:06 J -36101863.16 -36101863.12 -36101863.08 0.2697 0.2505

Mercury -103552-12-14 17:30 J -36100596.86 -36100596.77 -36100596.68 0.2649 0.2078

Mercury -103548-06-20 04:18 J -36099313.43 -36099313.32 -36099313.21 0.2683 0.0538

Mercury -103545-12-06 15:21 J -36098047.90 -36098047.86 -36098047.83 0.2664 0.2565

Mercury -103535-06-22 23:45 J -36094562.63 -36094562.51 -36094562.40 0.2688 0.0567

Mercury -103532-12-09 17:45 J -36093296.89 -36093296.76 -36093296.63 0.2659 0.0944

Mercury -103528-06-15 18:28 J -36092012.77 -36092012.73 -36092012.70 0.2674 0.2541

Mercury -103522-06-25 18:57 J -36089811.80 -36089811.71 -36089811.62 0.2692 0.1652

Mercury -103519-12-12 20:23 J -36088545.79 -36088545.65 -36088545.51 0.2654 0.0719

Mercury -103515-06-18 13:54 J -36087262.02 -36087261.92 -36087261.82 0.2679 0.1418

Mercury -103506-12-15 23:30 J -36083794.58 -36083794.52 -36083794.46 0.2648 0.2416

Mercury -103502-06-21 09:21 J -36082511.22 -36082511.11 -36082510.99 0.2683 0.0305

Mercury -103499-12-07 21:21 J -36081245.69 -36081245.61 -36081245.54 0.2663 0.2244

Mercury -103489-06-23 04:47 J -36077760.41 -36077760.30 -36077760.19 0.2688 0.0797

Mercury -103486-12-10 23:45 J -36076494.65 -36076494.51 -36076494.37 0.2658 0.0613

Mercury -103482-06-16 23:30 J -36075210.58 -36075210.52 -36075210.47 0.2674 0.2311

Mercury -103476-06-25 23:59 J -36073009.59 -36073009.50 -36073009.42 0.2693 0.1878

Mercury -103473-12-13 02:38 J -36071743.53 -36071743.39 -36071743.26 0.2653 0.1058

Mercury -103469-06-18 18:57 J -36070459.81 -36070459.71 -36070459.60 0.2679 0.1185

Venus -103459-01-18 17:30 J -36066958.93 -36066958.77 -36066958.61 0.2593 0.0464

Mercury -103456-06-21 14:23 J -36065709.02 -36065708.90 -36065708.78 0.2684 0.0082

Mercury -103453-12-08 03:21 J -36064443.46 -36064443.36 -36064443.26 0.2663 0.1918

Mercury -103443-06-24 09:50 J -36060958.20 -36060958.09 -36060957.99 0.2689 0.1026

Mercury -103440-12-11 05:45 J -36059692.40 -36059692.26 -36059692.11 0.2658 0.0285

Mercury -103436-06-17 04:33 J -36058408.38 -36058408.31 -36058408.24 0.2675 0.2074

Mercury -103430-06-27 05:02 J -36056207.36 -36056207.29 -36056207.22 0.2694 0.2109

Mercury -103427-12-14 08:38 J -36054941.26 -36054941.14 -36054941.02 0.2652 0.1399

Mercury -103423-06-19 23:59 J -36053657.61 -36053657.50 -36053657.39 0.2680 0.0958

Mercury -103410-06-22 19:26 J -36048906.80 -36048906.69 -36048906.57 0.2685 0.0159

Mercury -103407-12-09 09:21 J -36047641.23 -36047641.11 -36047641.00 0.2662 0.1595

Mercury -103397-06-24 14:52 J -36044155.99 -36044155.88 -36044155.78 0.2689 0.1255

Mercury -103394-12-12 11:59 J -36042890.15 -36042890.00 -36042889.86 0.2657 0.0100

Mercury -103390-06-18 09:35 J -36041606.18 -36041606.10 -36041606.02 0.2675 0.1840

Mercury -103384-06-27 09:50 J -36039405.14 -36039405.09 -36039405.03 0.2694 0.2336

Mercury -103381-12-14 14:52 J -36038138.99 -36038138.88 -36038138.77 0.2652 0.1745

Mercury -103377-06-20 05:02 J -36036855.40 -36036855.29 -36036855.17 0.2680 0.0726

Venus -103370-07-28 06:14 J -36034261.40 -36034261.24 -36034261.09 0.2748 0.0154

Mercury -103364-06-23 00:28 J -36032104.59 -36032104.48 -36032104.36 0.2685 0.0384

Mercury -103361-12-09 15:21 J -36030838.99 -36030838.86 -36030838.74 0.2662 0.1266

Mercury -103351-06-25 19:40 J -36027353.77 -36027353.68 -36027353.58 0.2690 0.1480

Mercury -103348-12-12 17:59 J -36026087.90 -36026087.75 -36026087.61 0.2656 0.0395

Mercury -103344-06-18 14:38 J -36024803.98 -36024803.89 -36024803.80 0.2676 0.1610

Mercury -103338-06-28 14:52 J -36022602.91 -36022602.88 -36022602.84 0.2695 0.2561

Mercury -103335-12-15 20:52 J -36021336.72 -36021336.63 -36021336.54 0.2651 0.2083

Mercury -103331-06-21 10:04 J -36020053.19 -36020053.08 -36020052.96 0.2681 0.0500

Mercury -103328-12-07 18:57 J -36018787.75 -36018787.71 -36018787.68 0.2666 0.2561

Mercury -103318-06-24 05:30 J -36015302.38 -36015302.27 -36015302.16 0.2686 0.0616

Mercury -103315-12-10 21:21 J -36014036.75 -36014036.61 -36014036.48 0.2661 0.0942

Mercury -103311-06-16 23:59 J -36012752.53 -36012752.50 -36012752.46 0.2672 0.2509

Mercury -103305-06-26 00:42 J -36010551.56 -36010551.47 -36010551.38 0.2691 0.1705

Mercury -103302-12-13 23:59 J -36009285.64 -36009285.50 -36009285.36 0.2656 0.0725

Mercury -103298-06-19 19:40 J -36008001.78 -36008001.68 -36008001.58 0.2677 0.1379

Mercury -103289-12-16 02:52 J -36004534.43 -36004534.38 -36004534.32 0.2650 0.2427

Mercury -103285-06-21 15:06 J -36003250.98 -36003250.87 -36003250.75 0.2682 0.0274

Mercury -103282-12-09 00:57 J -36001985.54 -36001985.46 -36001985.39 0.2666 0.2236

Mercury -103272-06-24 10:33 J -35998500.17 -35998500.06 -35998499.95 0.2686 0.0841

Mercury -103269-12-11 03:21 J -35997234.50 -35997234.36 -35997234.22 0.2660 0.0612

Mercury -103265-06-17 05:16 J -35995950.34 -35995950.28 -35995950.22 0.2673 0.2272

Mercury -103259-06-27 05:45 J -35993749.34 -35993749.26 -35993749.18 0.2691 0.1937

Mercury -103256-12-14 05:59 J -35992483.38 -35992483.25 -35992483.12 0.2655 0.1061

Mercury -103252-06-20 00:42 J -35991199.57 -35991199.47 -35991199.36 0.2677 0.1148

Mercury -103239-06-22 20:09 J -35986448.77 -35986448.66 -35986448.54 0.2682 0.0085

Mercury -103236-12-09 06:57 J -35985183.31 -35985183.21 -35985183.12 0.2665 0.1915

Mercury -103226-06-25 15:35 J -35981697.96 -35981697.85 -35981697.74 0.2687 0.1072

Mercury -103223-12-12 09:21 J -35980432.26 -35980432.11 -35980431.97 0.2660 0.0277

Mercury -103219-06-18 10:18 J -35979148.15 -35979148.07 -35979148.00 0.2673 0.2035

Venus -103216-01-18 20:23 J -35978202.81 -35978202.65 -35978202.49 0.2595 0.0225

Mercury -103213-06-27 10:47 J -35976947.12 -35976947.05 -35976946.98 0.2692 0.2158

Mercury -103210-12-15 11:59 J -35975681.12 -35975681.00 -35975680.87 0.2654 0.1404

Mercury -103206-06-21 05:45 J -35974397.37 -35974397.26 -35974397.15 0.2678 0.0916

Mercury -103193-06-23 01:11 J -35969646.56 -35969646.45 -35969646.33 0.2683 0.0221

Mercury -103190-12-10 12:57 J -35968381.08 -35968380.96 -35968380.85 0.2664 0.1584

Mercury -103180-06-25 20:38 J -35964895.74 -35964895.64 -35964895.54 0.2688 0.1299

Mercury -103177-12-12 15:21 J -35963630.00 -35963629.86 -35963629.71 0.2659 0.0064

Mercury -103173-06-18 15:21 J -35962345.94 -35962345.86 -35962345.77 0.2674 0.1802

Mercury -103167-06-28 15:49 J -35960144.89 -35960144.84 -35960144.79 0.2692 0.2387

Mercury -103164-12-15 18:13 J -35958878.85 -35958878.74 -35958878.64 0.2654 0.1748

Mercury -103160-06-21 11:01 J -35957595.16 -35957595.04 -35957594.93 0.2679 0.0682

Mercury -103147-06-24 06:28 J -35952844.35 -35952844.23 -35952844.12 0.2683 0.0448

Mercury -103144-12-10 18:57 J -35951578.84 -35951578.71 -35951578.59 0.2663 0.1261

Mercury -103134-06-27 01:40 J -35948093.52 -35948093.43 -35948093.34 0.2688 0.1531

Mercury -103131-12-13 21:21 J -35946827.75 -35946827.61 -35946827.47 0.2658 0.0400

Mercury -103127-06-19 20:23 J -35945543.74 -35945543.65 -35945543.55 0.2674 0.1569

Venus -103127-07-28 05:30 J -35945505.43 -35945505.27 -35945505.11 0.2744 0.0156

Mercury -103121-06-28 20:52 J -35943342.65 -35943342.63 -35943342.61 0.2693 0.2613

Mercury -103118-12-17 00:13 J -35942076.57 -35942076.49 -35942076.40 0.2653 0.2094

Mercury -103114-06-22 16:04 J -35940792.95 -35940792.83 -35940792.72 0.2679 0.0450

Mercury -103111-12-08 22:33 J -35939527.60 -35939527.56 -35939527.52 0.2668 0.2549

Mercury -103101-06-24 11:30 J -35936042.14 -35936042.02 -35936041.91 0.2684 0.0671

Mercury -103098-12-12 00:57 J -35934776.60 -35934776.46 -35934776.33 0.2663 0.0930

Mercury -103094-06-18 05:59 J -35933492.30 -35933492.25 -35933492.21 0.2670 0.2470

Mercury -103088-06-27 06:42 J -35931291.31 -35931291.22 -35931291.13 0.2689 0.1762

Mercury -103085-12-14 03:21 J -35930025.50 -35930025.36 -35930025.22 0.2657 0.0736

Mercury -103081-06-20 01:25 J -35928741.54 -35928741.44 -35928741.33 0.2675 0.1336

Mercury -103072-12-17 06:13 J -35925274.29 -35925274.24 -35925274.18 0.2652 0.2438

Mercury -103068-06-22 21:06 J -35923990.74 -35923990.62 -35923990.51 0.2680 0.0229

Mercury -103065-12-09 04:33 J -35922725.39 -35922725.31 -35922725.23 0.2667 0.2231

Mercury -103055-06-25 16:33 J -35919239.92 -35919239.81 -35919239.71 0.2685 0.0901

Mercury -103052-12-12 06:42 J -35917974.35 -35917974.22 -35917974.08 0.2662 0.0607

Mercury -103048-06-18 11:01 J -35916690.11 -35916690.04 -35916689.98 0.2671 0.2232

Mercury -103042-06-28 11:45 J -35914489.09 -35914489.01 -35914488.94 0.2689 0.1988

Mercury -103039-12-15 09:35 J -35913223.24 -35913223.10 -35913222.97 0.2657 0.1076

Mercury -103035-06-21 06:28 J -35911939.33 -35911939.23 -35911939.12 0.2675 0.1106

Mercury -103022-06-24 02:09 J -35907188.53 -35907188.41 -35907188.30 0.2680 0.0071

Mercury -103019-12-10 10:33 J -35905923.16 -35905923.06 -35905922.96 0.2667 0.1907

Mercury -103009-06-25 21:21 J -35902437.71 -35902437.61 -35902437.50 0.2685 0.1128

Mercury -103006-12-13 12:57 J -35901172.11 -35901171.96 -35901171.82 0.2661 0.0278

Mercury -103002-06-19 16:04 J -35899887.91 -35899887.83 -35899887.75 0.2671 0.1999

103RD MILLENNIUM BCE

This is a list of transits visible from Earth in the 103rd millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-102996-06-28 16:47 J	-35897686.87	-35897686.80	-35897686.74	0.2690	0.2216		
Mercury	-102993-12-15 15:35 J	-35896420.97	-35896420.85	-35896420.73	0.2656	0.1412		
Mercury	-102989-06-21 11:45 J	-35895137.13	-35895137.01	-35895136.90	0.2676	0.0872		
Mercury	-102976-06-24 07:11 J	-35890386.32	-35890386.20	-35890386.09	0.2681	0.0255		
Venus	-102973-01-19 23:01 J	-35889446.70	-35889446.54	-35889446.38	0.2598	0.0058		
Mercury	-102973-12-10 16:18 J	-35889120.93	-35889120.82	-35889120.70	0.2666	0.1589		
Mercury	-102963-06-27 02:23 J	-35885635.50	-35885635.40	-35885635.30	0.2686	0.1359		
Mercury	-102960-12-13 18:57 J	-35884369.86	-35884369.71	-35884369.57	0.2661	0.0108		
Mercury	-102956-06-19 21:06 J	-35883085.71	-35883085.62	-35883085.53	0.2672	0.1761		
Mercury	-102950-06-29 21:49 J	-35880884.64	-35880884.59	-35880884.55	0.2691	0.2444		
Mercury	-102947-12-16 21:35 J	-35879618.71	-35879618.60	-35879618.49	0.2656	0.1755		
Mercury	-102943-06-22 16:47 J	-35878334.92	-35878334.80	-35878334.69	0.2677	0.0636		
Mercury	-102930-06-25 12:13 J	-35873584.11	-35873583.99	-35873583.88	0.2682	0.0484		
Mercury	-102927-12-11 22:33 J	-35872318.69	-35872318.56	-35872318.44	0.2666	0.1250		
Mercury	-102923-06-18 06:28 J	-35871034.23	-35871034.23	-35871034.23	0.2668	0.2666		
Mercury	-102917-06-27 07:25 J	-35868833.28	-35868833.19	-35868833.09	0.2686	0.1587		
Mercury	-102914-12-15 00:57 J	-35867567.60	-35867567.46	-35867567.32	0.2660	0.0403		
Mercury	-102910-06-21 02:09 J	-35866283.50	-35866283.41	-35866283.31	0.2673	0.1526		
Mercury	-102904-06-30 02:37 J	-35864082.39	-35864082.39	-35864082.38	0.2691	0.2674		
Mercury	-102901-12-17 03:35 J	-35862816.43	-35862816.35	-35862816.26	0.2655	0.2096		
Mercury	-102897-06-22 21:49 J	-35861532.71	-35861532.59	-35861532.48	0.2677	0.0400		

Mercury -102894-12-10 02:23 J -35860267.44 -35860267.40 -35860267.36 0.2670 0.2540

Mercury -102884-06-25 17:16 J -35856781.89 -35856781.78 -35856781.67 0.2682 0.0716

Venus -102884-07-28 04:47 J -35856749.46 -35856749.30 -35856749.15 0.2741 0.0493

Mercury -102881-12-12 04:33 J -35855516.45 -35855516.31 -35855516.18 0.2665 0.0923

Mercury -102877-06-18 11:45 J -35854232.06 -35854232.01 -35854231.97 0.2668 0.2427

Mercury -102871-06-28 12:28 J -35852031.06 -35852030.98 -35852030.89 0.2687 0.1815

Mercury -102868-12-15 06:57 J -35850765.35 -35850765.21 -35850765.07 0.2660 0.0747

Mercury -102864-06-21 07:25 J -35849481.30 -35849481.19 -35849481.09 0.2673 0.1292

Mercury -102855-12-18 09:49 J -35846014.15 -35846014.09 -35846014.04 0.2654 0.2444

Mercury -102851-06-24 02:52 J -35844730.50 -35844730.38 -35844730.26 0.2678 0.0164

Mercury -102848-12-10 08:09 J -35843465.23 -35843465.16 -35843465.08 0.2669 0.2222

Mercury -102838-06-26 22:18 J -35839979.68 -35839979.57 -35839979.46 0.2683 0.0947

Mercury -102835-12-13 10:33 J -35838714.20 -35838714.06 -35838713.92 0.2664 0.0589

Mercury -102831-06-19 16:47 J -35837429.87 -35837429.80 -35837429.74 0.2669 0.2191

Mercury -102825-06-28 17:30 J -35835228.84 -35835228.77 -35835228.69 0.2688 0.2041

Mercury -102822-12-16 12:57 J -35833963.09 -35833962.96 -35833962.83 0.2659 0.1083

Mercury -102818-06-22 12:28 J -35832679.09 -35832678.98 -35832678.87 0.2674 0.1057

Mercury -102805-06-24 07:54 J -35827928.29 -35827928.17 -35827928.05 0.2679 0.0074

Mercury -102802-12-11 14:09 J -35826663.01 -35826662.91 -35826662.81 0.2669 0.1899

Mercury -102792-06-27 03:21 J -35823177.47 -35823177.36 -35823177.26 0.2683 0.1178

Mercury -102789-12-13 16:18 J -35821911.96 -35821911.82 -35821911.67 0.2663 0.0274

Mercury -102785-06-19 21:49 J -35820627.67 -35820627.59 -35820627.51 0.2670 0.1954

Mercury -102779-06-29 22:33 J -35818426.62 -35818426.56 -35818426.50 0.2688 0.2273

Mercury -102776-12-16 18:57 J -35817160.83 -35817160.71 -35817160.58 0.2658 0.1426

Mercury -102772-06-22 17:30 J -35815876.88 -35815876.77 -35815876.66 0.2674 0.0820

Mercury -102759-06-25 12:57 J -35811126.08 -35811125.96 -35811125.84 0.2679 0.0303

Mercury -102756-12-11 20:09 J -35809860.77 -35809860.66 -35809860.55 0.2668 0.1569

Mercury -102746-06-28 08:23 J -35806375.25 -35806375.15 -35806375.05 0.2684 0.1409

Mercury -102743-12-14 22:33 J -35805109.71 -35805109.56 -35805109.42 0.2663 0.0105

Mercury -102739-06-21 02:52 J -35803825.47 -35803825.38 -35803825.29 0.2670 0.1720

Mercury -102733-06-30 03:35 J -35801624.39 -35801624.35 -35801624.31 0.2689 0.2503

Venus -102730-01-20 01:40 J -35800690.59 -35800690.43 -35800690.27 0.2600 0.0207

Mercury -102730-12-18 00:57 J -35800358.56 -35800358.46 -35800358.35 0.2657 0.1762

Mercury -102726-06-23 22:33 J -35799074.68 -35799074.56 -35799074.45 0.2675 0.0584

Mercury -102713-06-25 17:59 J -35794323.86 -35794323.75 -35794323.63 0.2680 0.0535

Mercury -102710-12-13 02:09 J -35793058.54 -35793058.41 -35793058.29 0.2667 0.1246

Mercury -102706-06-19 12:13 J -35791774.00 -35791773.99 -35791773.97 0.2666 0.2626

Mercury -102700-06-28 13:25 J -35789573.03 -35789572.94 -35789572.85 0.2685 0.1641

Mercury -102697-12-15 04:33 J -35788307.45 -35788307.31 -35788307.17 0.2662 0.0418

Mercury -102693-06-21 07:54 J -35787023.26 -35787023.17 -35787023.07 0.2671 0.1482

Mercury -102684-12-18 07:11 J -35783556.29 -35783556.20 -35783556.12 0.2657 0.2110

Mercury -102680-06-24 03:35 J -35782272.47 -35782272.35 -35782272.23 0.2676 0.0352

Mercury -102677-12-10 05:59 J -35781007.29 -35781007.25 -35781007.21 0.2672 0.2538

Mercury -102667-06-26 23:01 J -35777521.65 -35777521.54 -35777521.43 0.2680 0.0769

Mercury -102664-12-13 08:09 J -35776256.30 -35776256.16 -35776256.03 0.2667 0.0914

Mercury -102660-06-19 17:16 J -35774971.83 -35774971.78 -35774971.72 0.2667 0.2386

Mercury -102654-06-29 18:28 J -35772770.81 -35772770.73 -35772770.65 0.2685 0.1871

Mercury -102651-12-16 10:33 J -35771505.20 -35771505.06 -35771504.93 0.2661 0.0751

Mercury -102647-06-22 13:11 J -35770221.06 -35770220.95 -35770220.85 0.2672 0.1247

Venus -102641-07-28 04:04 J -35767993.48 -35767993.33 -35767993.18 0.2738 0.0777

Mercury -102638-12-19 13:11 J -35766754.00 -35766753.95 -35766753.90 0.2656 0.2451

Mercury -102634-06-25 08:37 J -35765470.26 -35765470.14 -35765470.02 0.2676 0.0122

Mercury -102631-12-11 11:59 J -35764205.08 -35764205.00 -35764204.92 0.2671 0.2208

Mercury -102621-06-27 04:04 J -35760719.44 -35760719.33 -35760719.22 0.2681 0.0999

Mercury -102618-12-14 14:09 J -35759454.05 -35759453.91 -35759453.78 0.2666 0.0591

Mercury -102614-06-20 22:33 J -35758169.63 -35758169.56 -35758169.49 0.2667 0.2149

Mercury -102608-06-29 23:30 J -35755968.59 -35755968.52 -35755968.45 0.2686 0.2102

Mercury -102605-12-16 16:33 J -35754702.94 -35754702.81 -35754702.68 0.2661 0.1089

Mercury -102601-06-22 18:13 J -35753418.85 -35753418.74 -35753418.63 0.2672 0.1006

Mercury -102588-06-25 13:40 J -35748668.05 -35748667.93 -35748667.81 0.2677 0.0129

Mercury -102585-12-11 17:59 J -35747402.85 -35747402.75 -35747402.65 0.2671 0.1883
 Mercury -102575-06-28 09:06 J -35743917.22 -35743917.12 -35743917.02 0.2682 0.1233
 Mercury -102572-12-14 20:09 J -35742651.81 -35742651.66 -35742651.52 0.2665 0.0249
 Mercury -102568-06-21 03:35 J -35741367.43 -35741367.35 -35741367.27 0.2668 0.1911
 Mercury -102562-07-01 04:33 J -35739166.37 -35739166.31 -35739166.26 0.2686 0.2332
 Mercury -102559-12-17 22:33 J -35737900.68 -35737900.56 -35737900.44 0.2660 0.1426
 Mercury -102555-06-23 23:16 J -35736616.64 -35736616.53 -35736616.42 0.2673 0.0772
 Mercury -102542-06-26 18:42 J -35731865.83 -35731865.72 -35731865.60 0.2677 0.0359
 Mercury -102539-12-12 23:45 J -35730600.62 -35730600.51 -35730600.39 0.2670 0.1560
 Mercury -102529-06-28 14:09 J -35727115.00 -35727114.91 -35727114.81 0.2682 0.1467
 Mercury -102526-12-16 02:09 J -35725849.56 -35725849.41 -35725849.27 0.2665 0.0112
 Mercury -102522-06-22 08:37 J -35724565.23 -35724565.14 -35724565.05 0.2668 0.1671
 Mercury -102516-07-01 09:35 J -35722364.13 -35722364.10 -35722364.07 0.2687 0.2563
 Mercury -102513-12-18 04:33 J -35721098.41 -35721098.31 -35721098.20 0.2660 0.1778
 Mercury -102509-06-24 04:18 J -35719814.43 -35719814.32 -35719814.20 0.2673 0.0536
 Mercury -102496-06-26 23:45 J -35715063.62 -35715063.51 -35715063.39 0.2678 0.0594
 Mercury -102493-12-13 05:45 J -35713798.38 -35713798.26 -35713798.13 0.2669 0.1233
 Mercury -102489-06-19 17:59 J -35712513.78 -35712513.75 -35712513.72 0.2664 0.2580
 Venus -102487-01-20 04:04 J -35711934.49 -35711934.33 -35711934.17 0.2603 0.0399
 Mercury -102483-06-29 19:11 J -35710312.79 -35710312.70 -35710312.61 0.2683 0.1700
 Mercury -102480-12-16 08:09 J -35709047.31 -35709047.16 -35709047.02 0.2664 0.0431
 Mercury -102476-06-22 13:40 J -35707763.02 -35707762.93 -35707762.83 0.2669 0.1437
 Mercury -102467-12-19 10:33 J -35704296.14 -35704296.06 -35704295.97 0.2659 0.2117
 Mercury -102463-06-25 09:21 J -35703012.22 -35703012.11 -35703011.99 0.2674 0.0303
 Mercury -102460-12-11 09:49 J -35701747.14 -35701747.09 -35701747.05 0.2674 0.2521
 Mercury -102450-06-28 05:01 J -35698261.41 -35698261.29 -35698261.18 0.2679 0.0831
 Mercury -102447-12-14 11:45 J -35696996.14 -35696996.01 -35696995.88 0.2669 0.0905
 Mercury -102443-06-20 23:01 J -35695711.59 -35695711.54 -35695711.48 0.2665 0.2347
 Mercury -102437-06-30 00:13 J -35693510.57 -35693510.49 -35693510.41 0.2683 0.1932
 Mercury -102434-12-17 13:54 J -35692245.05 -35692244.92 -35692244.78 0.2663 0.0762

Mercury -102430-06-23 18:57 J -35690960.82 -35690960.71 -35690960.61 0.2670 0.1197

Mercury -102421-12-19 16:47 J -35687493.85 -35687493.80 -35687493.75 0.2658 0.2466

Mercury -102417-06-25 14:23 J -35686210.01 -35686209.90 -35686209.78 0.2674 0.0100

Mercury -102414-12-12 15:35 J -35684944.92 -35684944.85 -35684944.77 0.2673 0.2201

Mercury -102404-06-28 10:04 J -35681459.19 -35681459.08 -35681458.98 0.2679 0.1062

Mercury -102401-12-14 17:45 J -35680193.90 -35680193.76 -35680193.62 0.2668 0.0570

Venus -102398-07-29 03:35 J -35679237.49 -35679237.35 -35679237.20 0.2735 0.1058

Mercury -102397-06-21 04:18 J -35678909.39 -35678909.32 -35678909.25 0.2666 0.2106

Mercury -102391-07-01 05:16 J -35676708.34 -35676708.28 -35676708.21 0.2684 0.2166

Mercury -102388-12-17 20:09 J -35675442.79 -35675442.66 -35675442.53 0.2663 0.1102

Mercury -102384-06-23 23:59 J -35674158.61 -35674158.50 -35674158.39 0.2670 0.0962

Mercury -102371-06-26 19:25 J -35669407.80 -35669407.69 -35669407.57 0.2675 0.0196

Mercury -102368-12-12 21:35 J -35668142.70 -35668142.60 -35668142.50 0.2673 0.1877

Mercury -102358-06-29 15:06 J -35664656.98 -35664656.87 -35664656.77 0.2680 0.1295

Mercury -102355-12-15 23:45 J -35663391.66 -35663391.51 -35663391.37 0.2667 0.0256

Mercury -102351-06-22 09:21 J -35662107.19 -35662107.11 -35662107.03 0.2666 0.1863

Mercury -102345-07-01 10:18 J -35659906.12 -35659906.07 -35659906.02 0.2685 0.2396

Mercury -102342-12-19 02:09 J -35658640.53 -35658640.41 -35658640.29 0.2662 0.1442

Mercury -102338-06-25 05:01 J -35657356.40 -35657356.29 -35657356.18 0.2671 0.0721

Mercury -102325-06-27 00:42 J -35652605.59 -35652605.47 -35652605.36 0.2676 0.0419

Mercury -102322-12-14 03:35 J -35651340.47 -35651340.35 -35651340.24 0.2672 0.1553

Mercury -102312-06-29 20:09 J -35647854.76 -35647854.66 -35647854.57 0.2680 0.1526

Mercury -102309-12-16 05:45 J -35646589.41 -35646589.26 -35646589.12 0.2667 0.0130

Mercury -102305-06-22 14:23 J -35645304.99 -35645304.90 -35645304.80 0.2667 0.1625

Mercury -102299-07-02 15:21 J -35643103.88 -35643103.86 -35643103.84 0.2685 0.2625

Mercury -102296-12-19 08:09 J -35641838.27 -35641838.16 -35641838.06 0.2661 0.1780

Mercury -102292-06-25 10:04 J -35640554.19 -35640554.08 -35640553.96 0.2672 0.0485

Mercury -102279-06-28 05:45 J -35635803.38 -35635803.26 -35635803.15 0.2676 0.0650

Mercury -102276-12-14 09:35 J -35634538.23 -35634538.10 -35634537.98 0.2671 0.1224

Mercury -102272-06-20 23:45 J -35633253.54 -35633253.51 -35633253.48 0.2663 0.2542

Mercury -102266-07-01 01:11 J -35631052.54 -35631052.45 -35631052.37 0.2681 0.1758

Mercury -102263-12-17 11:30 J -35629787.16 -35629787.02 -35629786.87 0.2666 0.0438

Mercury -102259-06-23 19:25 J -35628502.79 -35628502.69 -35628502.58 0.2667 0.1389

Mercury -102250-12-20 14:09 J -35625036.00 -35625035.91 -35625035.83 0.2661 0.2126

Mercury -102246-06-26 15:06 J -35623751.98 -35623751.87 -35623751.75 0.2672 0.0259

Venus -102244-01-20 06:42 J -35623178.38 -35623178.22 -35623178.07 0.2606 0.0596

Mercury -102243-12-12 13:40 J -35622486.98 -35622486.93 -35622486.89 0.2676 0.2510

Mercury -102233-06-28 10:47 J -35619001.16 -35619001.05 -35619000.94 0.2677 0.0882

Mercury -102230-12-15 15:21 J -35617735.99 -35617735.86 -35617735.72 0.2671 0.0894

Mercury -102226-06-22 04:47 J -35616451.36 -35616451.30 -35616451.24 0.2663 0.2298

Mercury -102220-07-01 06:13 J -35614250.32 -35614250.24 -35614250.17 0.2682 0.1995

Mercury -102217-12-17 17:45 J -35612984.90 -35612984.76 -35612984.63 0.2665 0.0777

Mercury -102213-06-24 00:42 J -35611700.58 -35611700.47 -35611700.37 0.2668 0.1149

Mercury -102204-12-20 20:09 J -35608233.71 -35608233.66 -35608233.61 0.2660 0.2472

Mercury -102200-06-26 20:23 J -35606949.77 -35606949.65 -35606949.54 0.2673 0.0084

Mercury -102197-12-12 19:25 J -35605684.77 -35605684.69 -35605684.61 0.2675 0.2189

Mercury -102187-06-29 15:49 J -35602198.95 -35602198.84 -35602198.73 0.2677 0.1119

Mercury -102184-12-15 21:21 J -35600933.75 -35600933.61 -35600933.47 0.2670 0.0559

Mercury -102180-06-22 10:04 J -35599649.16 -35599649.08 -35599649.01 0.2664 0.2057

Mercury -102174-07-02 11:16 J -35597448.10 -35597448.03 -35597447.97 0.2682 0.2227

Mercury -102171-12-18 23:45 J -35596182.64 -35596182.51 -35596182.38 0.2665 0.1115

Mercury -102167-06-25 05:45 J -35594898.37 -35594898.26 -35594898.15 0.2668 0.0904

Venus -102155-07-29 03:21 J -35590481.50 -35590481.36 -35590481.22 0.2732 0.1322

Mercury -102154-06-28 01:25 J -35590147.56 -35590147.44 -35590147.32 0.2673 0.0235

Mercury -102151-12-14 01:25 J -35588882.54 -35588882.44 -35588882.34 0.2675 0.1866

Mercury -102141-06-29 20:52 J -35585396.73 -35585396.63 -35585396.53 0.2678 0.1351

Mercury -102138-12-17 03:21 J -35584131.50 -35584131.36 -35584131.22 0.2669 0.0227

Mercury -102134-06-23 15:06 J -35582846.96 -35582846.87 -35582846.79 0.2664 0.1816

Mercury -102128-07-02 16:18 J -35580645.87 -35580645.82 -35580645.78 0.2683 0.2459

Mercury -102125-12-19 05:45 J -35579380.38 -35579380.26 -35579380.14 0.2664 0.1455

Mercury -102121-06-25 10:47 J -35578096.16 -35578096.05 -35578095.93 0.2669 0.0668

Mercury -102108-06-28 06:28 J -35573345.35 -35573345.23 -35573345.11 0.2674 0.0471

Mercury -102105-12-14 07:11 J -35572080.31 -35572080.20 -35572080.08 0.2674 0.1541

Mercury -102095-07-01 01:54 J -35568594.51 -35568594.42 -35568594.33 0.2679 0.1587

Mercury -102092-12-17 09:21 J -35567329.25 -35567329.11 -35567328.97 0.2669 0.0116

Mercury -102088-06-23 20:09 J -35566044.75 -35566044.66 -35566044.56 0.2665 0.1579

Mercury -102079-12-20 11:45 J -35562578.12 -35562578.01 -35562577.91 0.2663 0.1795

Mercury -102075-06-26 15:49 J -35561293.95 -35561293.84 -35561293.72 0.2670 0.0435

Mercury -102062-06-29 11:30 J -35556543.13 -35556543.02 -35556542.91 0.2674 0.0704

Mercury -102059-12-15 13:11 J -35555278.07 -35555277.95 -35555277.82 0.2673 0.1211

Mercury -102055-06-22 05:30 J -35553993.31 -35553993.27 -35553993.23 0.2661 0.2495

Mercury -102049-07-01 06:57 J -35551792.29 -35551792.21 -35551792.12 0.2679 0.1822

Mercury -102046-12-18 15:21 J -35550527.00 -35550526.86 -35550526.72 0.2668 0.0447

Mercury -102042-06-25 01:11 J -35549242.55 -35549242.45 -35549242.34 0.2666 0.1338

Mercury -102033-12-20 17:45 J -35545775.85 -35545775.76 -35545775.68 0.2663 0.2139

Mercury -102029-06-26 21:06 J -35544491.74 -35544491.62 -35544491.51 0.2670 0.0216

Mercury -102026-12-13 17:16 J -35543226.82 -35543226.78 -35543226.73 0.2678 0.2501

Mercury -102016-06-29 16:33 J -35539740.92 -35539740.81 -35539740.70 0.2675 0.0940

Mercury -102013-12-15 19:11 J -35538475.84 -35538475.70 -35538475.57 0.2673 0.0883

Mercury -102009-06-22 10:33 J -35537191.12 -35537191.06 -35537191.00 0.2662 0.2250

Mercury -102003-07-02 11:59 J -35534990.07 -35534990.00 -35534989.93 0.2680 0.2055

Venus -102001-01-21 09:06 J -35534422.28 -35534422.12 -35534421.97 0.2609 0.0787

102ND MILLENNIUM BCE

This is a list of transits visible from Earth in the 102nd millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-102000-12-18 21:21 J	-35533724.75	-35533724.61	-35533724.48	0.2667	0.0785		
Mercury	-101996-06-25 06:28 J	-35532440.34	-35532440.23	-35532440.12	0.2666	0.1093		
Mercury	-101987-12-21 23:45 J	-35528973.56	-35528973.51	-35528973.46	0.2662	0.2485		
Mercury	-101983-06-28 02:09 J	-35527689.53	-35527689.41	-35527689.29	0.2671	0.0070		
Mercury	-101980-12-13 23:16 J	-35526424.61	-35526424.53	-35526424.45	0.2677	0.2173		
Mercury	-101970-06-30 21:35 J	-35522938.70	-35522938.60	-35522938.49	0.2676	0.1175		
Mercury	-101967-12-17 01:11 J	-35521673.59	-35521673.45	-35521673.31	0.2672	0.0548		
Mercury	-101963-06-23 15:49 J	-35520388.92	-35520388.84	-35520388.77	0.2662	0.2010		
Mercury	-101957-07-02 17:01 J	-35518187.85	-35518187.79	-35518187.73	0.2681	0.2286		
Mercury	-101954-12-20 03:21 J	-35516922.49	-35516922.36	-35516922.23	0.2667	0.1126		
Mercury	-101950-06-26 11:30 J	-35515638.13	-35515638.02	-35515637.91	0.2667	0.0852		
Mercury	-101937-06-28 07:11 J	-35510887.32	-35510887.20	-35510887.08	0.2672	0.0290		
Mercury	-101934-12-15 05:16 J	-35509622.38	-35509622.28	-35509622.18	0.2676	0.1851		
Mercury	-101924-07-01 02:37 J	-35506136.49	-35506136.39	-35506136.29	0.2676	0.1417		
Mercury	-101921-12-17 06:57 J	-35504871.35	-35504871.21	-35504871.06	0.2671	0.0230		
Venus	-101920-07-31 12:57 J	-35504644.98	-35504644.96	-35504644.93	0.2732	0.2688		
Mercury	-101917-06-23 20:52 J	-35503586.72	-35503586.63	-35503586.54	0.2663	0.1767		
Venus	-101912-07-29 03:06 J	-35501725.50	-35501725.37	-35501725.24	0.2728	0.1559		
Mercury	-101911-07-03 22:04 J	-35501385.61	-35501385.58	-35501385.54	0.2681	0.2520		
Mercury	-101908-12-20 09:21 J	-35500120.23	-35500120.11	-35500120.00	0.2666	0.1467		
Mercury	-101904-06-26 16:33 J	-35498835.92	-35498835.81	-35498835.69	0.2667	0.0616		
Mercury	-101891-06-29 12:13 J	-35494085.10	-35494084.99	-35494084.87	0.2672	0.0528		
Mercury	-101888-12-15 11:01 J	-35492820.15	-35492820.04	-35492819.92	0.2676	0.1522		
Mercury	-101878-07-02 07:40 J	-35489334.27	-35489334.18	-35489334.08	0.2677	0.1651		

Mercury -101875-12-18 12:57 J -35488069.10 -35488068.96 -35488068.82 0.2670 0.0138

Mercury -101871-06-25 01:54 J -35486784.52 -35486784.42 -35486784.32 0.2663 0.1524

Mercury -101862-12-21 15:21 J -35483317.97 -35483317.86 -35483317.76 0.2665 0.1810

Mercury -101858-06-27 21:35 J -35482033.71 -35482033.60 -35482033.48 0.2668 0.0388

Mercury -101845-06-29 17:16 J -35477282.89 -35477282.78 -35477282.67 0.2673 0.0762

Mercury -101842-12-16 17:01 J -35476017.92 -35476017.79 -35476017.67 0.2675 0.1199

Mercury -101838-06-23 11:16 J -35474733.08 -35474733.03 -35474732.99 0.2659 0.2449

Mercury -101832-07-02 12:42 J -35472532.05 -35472531.97 -35472531.88 0.2677 0.1888

Mercury -101829-12-18 18:57 J -35471266.85 -35471266.71 -35471266.57 0.2670 0.0458

Mercury -101825-06-25 06:57 J -35469982.31 -35469982.21 -35469982.10 0.2664 0.1285

Mercury -101816-12-21 21:21 J -35466515.70 -35466515.61 -35466515.53 0.2665 0.2153

Mercury -101812-06-28 02:52 J -35465231.50 -35465231.38 -35465231.26 0.2668 0.0150

Mercury -101809-12-13 21:06 J -35463966.67 -35463966.62 -35463966.57 0.2680 0.2489

Mercury -101799-06-30 22:18 J -35460480.68 -35460480.57 -35460480.46 0.2673 0.1002

Mercury -101796-12-16 22:47 J -35459215.68 -35459215.55 -35459215.41 0.2674 0.0870

Mercury -101792-06-23 16:18 J -35457930.89 -35457930.82 -35457930.76 0.2660 0.2204

Mercury -101786-07-03 17:45 J -35455729.82 -35455729.76 -35455729.68 0.2678 0.2120

Mercury -101783-12-20 00:57 J -35454464.60 -35454464.46 -35454464.33 0.2669 0.0794

Mercury -101779-06-26 12:13 J -35453180.10 -35453179.99 -35453179.88 0.2664 0.1043

Mercury -101770-12-23 03:06 J -35449713.41 -35449713.37 -35449713.32 0.2664 0.2497

Mercury -101766-06-29 07:54 J -35448429.29 -35448429.17 -35448429.05 0.2669 0.0109

Mercury -101763-12-15 03:06 J -35447164.45 -35447164.37 -35447164.29 0.2679 0.2164

Venus -101758-01-21 11:16 J -35445666.18 -35445666.03 -35445665.88 0.2612 0.0946

Mercury -101753-07-01 03:21 J -35443678.46 -35443678.36 -35443678.25 0.2674 0.1245

Venus -101750-01-19 03:49 J -35442746.35 -35442746.34 -35442746.34 0.2616 0.2613

Mercury -101750-12-18 04:47 J -35442413.44 -35442413.30 -35442413.16 0.2674 0.0539

Mercury -101746-06-24 21:21 J -35441128.69 -35441128.61 -35441128.53 0.2660 0.1960

Mercury -101740-07-03 23:01 J -35438927.60 -35438927.54 -35438927.49 0.2679 0.2357

Mercury -101737-12-20 06:57 J -35437662.34 -35437662.21 -35437662.09 0.2669 0.1136

Mercury -101733-06-26 17:16 J -35436377.89 -35436377.78 -35436377.67 0.2665 0.0800

Mercury -101720-06-29 12:57 J -35431627.08 -35431626.96 -35431626.84 0.2670 0.0345

Mercury -101717-12-15 08:52 J -35430362.23 -35430362.13 -35430362.02 0.2678 0.1838

Mercury -101707-07-02 08:37 J -35426876.24 -35426876.14 -35426876.05 0.2675 0.1477

Mercury -101704-12-18 10:47 J -35425611.19 -35425611.05 -35425610.91 0.2673 0.0205

Mercury -101700-06-25 02:37 J -35424326.48 -35424326.39 -35424326.30 0.2661 0.1716

Mercury -101694-07-05 04:04 J -35422125.36 -35422125.33 -35422125.31 0.2679 0.2592

Mercury -101691-12-21 12:57 J -35420860.08 -35420859.96 -35420859.85 0.2668 0.1475

Mercury -101687-06-27 22:18 J -35419575.68 -35419575.57 -35419575.45 0.2666 0.0559

Venus -101677-07-31 12:42 J -35415889.04 -35415888.97 -35415888.90 0.2729 0.2422

Mercury -101674-06-30 17:59 J -35414824.86 -35414824.75 -35414824.63 0.2671 0.0583

Mercury -101671-12-16 14:52 J -35413559.99 -35413559.88 -35413559.76 0.2678 0.1511

Venus -101669-07-29 02:52 J -35412969.50 -35412969.38 -35412969.26 0.2725 0.1805

Mercury -101667-06-23 11:45 J -35412275.02 -35412275.01 -35412275.00 0.2657 0.2643

Mercury -101661-07-02 13:40 J -35410074.02 -35410073.93 -35410073.84 0.2675 0.1713

Mercury -101658-12-19 16:47 J -35408808.95 -35408808.80 -35408808.66 0.2673 0.0157

Mercury -101654-06-26 07:40 J -35407524.28 -35407524.18 -35407524.08 0.2662 0.1470

Mercury -101645-12-21 18:42 J -35404057.82 -35404057.72 -35404057.61 0.2667 0.1821

Mercury -101641-06-28 03:21 J -35402773.47 -35402773.36 -35402773.24 0.2666 0.0332

Mercury -101628-06-30 23:01 J -35398022.65 -35398022.54 -35398022.42 0.2671 0.0828

Mercury -101625-12-16 20:52 J -35396757.76 -35396757.63 -35396757.51 0.2677 0.1184

Mercury -101621-06-23 16:47 J -35395472.85 -35395472.80 -35395472.75 0.2657 0.2398

Mercury -101615-07-03 18:42 J -35393271.80 -35393271.72 -35393271.64 0.2676 0.1948

Mercury -101612-12-19 22:33 J -35392006.69 -35392006.56 -35392006.42 0.2672 0.0478

Mercury -101608-06-26 12:42 J -35390722.07 -35390721.97 -35390721.86 0.2662 0.1232

Mercury -101599-12-23 00:42 J -35387255.55 -35387255.47 -35387255.38 0.2667 0.2163

Mercury -101595-06-29 08:37 J -35385971.26 -35385971.14 -35385971.02 0.2667 0.0096

Mercury -101592-12-15 00:57 J -35384706.51 -35384706.46 -35384706.40 0.2681 0.2472

Mercury -101582-07-02 04:18 J -35381220.43 -35381220.32 -35381220.22 0.2672 0.1067

Mercury -101579-12-18 02:37 J -35379955.52 -35379955.39 -35379955.26 0.2676 0.0858

Mercury -101575-06-24 22:04 J -35378670.65 -35378670.58 -35378670.51 0.2658 0.2154

Mercury -101569-07-03 23:45 J -35376469.58 -35376469.51 -35376469.45 0.2676 0.2187

Mercury -101566-12-21 04:33 J -35375204.44 -35375204.31 -35375204.17 0.2671 0.0807

Mercury -101562-06-27 17:59 J -35373919.87 -35373919.75 -35373919.64 0.2663 0.0992

Mercury -101553-12-23 06:57 J -35370453.26 -35370453.21 -35370453.17 0.2666 0.2510

Mercury -101549-06-29 13:40 J -35369169.05 -35369168.93 -35369168.81 0.2667 0.0165

Mercury -101546-12-16 06:57 J -35367904.29 -35367904.21 -35367904.13 0.2681 0.2151

Mercury -101536-07-02 09:21 J -35364418.21 -35364418.11 -35364418.01 0.2672 0.1303

Mercury -101533-12-18 08:37 J -35363153.28 -35363153.14 -35363153.00 0.2676 0.0524

Mercury -101529-06-25 03:06 J -35361868.45 -35361868.37 -35361868.29 0.2659 0.1910

Mercury -101523-07-05 04:47 J -35359667.35 -35359667.30 -35359667.25 0.2677 0.2422

Mercury -101520-12-21 10:33 J -35358402.19 -35358402.06 -35358401.93 0.2670 0.1145

Mercury -101516-06-27 23:01 J -35357117.66 -35357117.54 -35357117.43 0.2663 0.0745

Venus -101515-01-21 13:25 J -35356910.08 -35356909.94 -35356909.79 0.2615 0.1096

Venus -101507-01-19 05:30 J -35353990.31 -35353990.27 -35353990.22 0.2618 0.2508

Mercury -101503-06-30 18:42 J -35352366.84 -35352366.72 -35352366.60 0.2668 0.0408

Mercury -101500-12-16 12:42 J -35351102.07 -35351101.97 -35351101.87 0.2680 0.1827

Mercury -101490-07-03 14:23 J -35347616.00 -35347615.90 -35347615.81 0.2673 0.1540

Mercury -101487-12-19 14:23 J -35346351.04 -35346350.90 -35346350.76 0.2675 0.0201

Mercury -101483-06-26 08:09 J -35345066.25 -35345066.16 -35345066.06 0.2659 0.1668

Mercury -101477-07-05 09:49 J -35342865.10 -35342865.09 -35342865.08 0.2677 0.2658

Mercury -101474-12-22 16:33 J -35341599.93 -35341599.81 -35341599.69 0.2670 0.1489

Mercury -101470-06-29 04:04 J -35340315.45 -35340315.33 -35340315.21 0.2664 0.0503

Mercury -101457-06-30 23:45 J -35335564.62 -35335564.51 -35335564.39 0.2669 0.0651

Mercury -101454-12-17 18:42 J -35334299.84 -35334299.72 -35334299.61 0.2680 0.1505

Mercury -101450-06-24 17:30 J -35333014.80 -35333014.77 -35333014.75 0.2655 0.2595

Mercury -101444-07-03 19:25 J -35330813.78 -35330813.69 -35330813.60 0.2673 0.1779

Mercury -101441-12-19 20:23 J -35329548.79 -35329548.65 -35329548.51 0.2674 0.0144

Mercury -101437-06-26 13:25 J -35328264.04 -35328263.94 -35328263.84 0.2660 0.1422

Venus -101434-08-01 12:28 J -35327133.07 -35327132.98 -35327132.88 0.2726 0.2181

Mercury -101428-12-22 22:33 J -35324797.67 -35324797.56 -35324797.46 0.2669 0.1828

Venus -101426-07-30 02:52 J -35324213.48 -35324213.38 -35324213.28 0.2721 0.2023

Mercury -101424-06-29 09:06 J -35323513.23 -35323513.12 -35323513.00 0.2665 0.0278

Mercury -101411-07-02 05:01 J -35318762.41 -35318762.29 -35318762.18 0.2669 0.0891

Mercury -101408-12-18 00:28 J -35317497.60 -35317497.48 -35317497.35 0.2679 0.1176

Mercury -101404-06-24 22:33 J -35316212.61 -35316212.56 -35316212.51 0.2656 0.2351

Mercury -101398-07-05 00:28 J -35314011.56 -35314011.48 -35314011.40 0.2674 0.2015

Mercury -101395-12-21 02:23 J -35312746.54 -35312746.40 -35312746.27 0.2674 0.0482

Mercury -101391-06-27 18:28 J -35311461.84 -35311461.73 -35311461.62 0.2661 0.1176

Mercury -101382-12-24 04:18 J -35307995.40 -35307995.32 -35307995.24 0.2668 0.2172

Mercury -101378-06-30 14:23 J -35306711.02 -35306710.90 -35306710.78 0.2665 0.0061

Mercury -101375-12-16 05:01 J -35305446.35 -35305446.29 -35305446.24 0.2683 0.2459

Mercury -101365-07-02 10:04 J -35301960.19 -35301960.08 -35301959.98 0.2670 0.1127

Mercury -101362-12-19 06:28 J -35300695.36 -35300695.23 -35300695.10 0.2678 0.0840

Mercury -101358-06-26 03:35 J -35299410.42 -35299410.35 -35299410.27 0.2656 0.2105

Mercury -101352-07-05 05:30 J -35297209.33 -35297209.27 -35297209.21 0.2675 0.2251

Mercury -101349-12-21 08:09 J -35295944.29 -35295944.16 -35295944.02 0.2673 0.0820

Mercury -101345-06-27 23:30 J -35294659.63 -35294659.52 -35294659.40 0.2661 0.0938

Mercury -101336-12-24 10:18 J -35291193.11 -35291193.07 -35291193.02 0.2668 0.2511

Mercury -101332-06-30 19:25 J -35289908.81 -35289908.69 -35289908.57 0.2666 0.0226

Mercury -101329-12-16 10:47 J -35288644.13 -35288644.05 -35288643.97 0.2683 0.2135

Mercury -101319-07-03 15:06 J -35285157.97 -35285157.87 -35285157.77 0.2671 0.1365

Mercury -101316-12-19 12:13 J -35283893.12 -35283892.99 -35283892.85 0.2678 0.0518

Mercury -101312-06-26 08:52 J -35282608.22 -35282608.13 -35282608.05 0.2657 0.1859

Mercury -101306-07-06 10:33 J -35280407.10 -35280407.06 -35280407.02 0.2675 0.2489

Mercury -101303-12-22 14:09 J -35279142.03 -35279141.91 -35279141.78 0.2672 0.1161

Mercury -101299-06-29 04:47 J -35277857.42 -35277857.30 -35277857.19 0.2662 0.0686

Mercury -101286-07-02 00:28 J -35273106.59 -35273106.48 -35273106.36 0.2666 0.0470

Mercury -101283-12-17 16:33 J -35271841.91 -35271841.81 -35271841.71 0.2682 0.1818

Mercury -101273-07-03 20:09 J -35268355.75 -35268355.66 -35268355.57 0.2671 0.1606

Venus -101272-01-21 15:21 J -35268154.00 -35268153.86 -35268153.72 0.2618 0.1228

Mercury -101270-12-20 18:13 J -35267090.88 -35267090.74 -35267090.60 0.2677 0.0177

Mercury -101266-06-27 13:54 J -35265806.01 -35265805.92 -35265805.82 0.2658 0.1610

Venus -101264-01-19 07:40 J -35265234.24 -35265234.18 -35265234.12 0.2622 0.2396

Mercury -101257-12-22 20:09 J -35262339.78 -35262339.66 -35262339.54 0.2672 0.1499

Mercury -101253-06-29 09:49 J -35261055.21 -35261055.09 -35261054.97 0.2662 0.0445

Mercury -101240-07-02 05:45 J -35256304.38 -35256304.26 -35256304.15 0.2667 0.0718

Mercury -101237-12-17 22:33 J -35255039.68 -35255039.56 -35255039.45 0.2681 0.1487

Mercury -101233-06-24 23:01 J -35253754.57 -35253754.54 -35253754.51 0.2654 0.2550

Mercury -101227-07-05 01:11 J -35251553.53 -35251553.45 -35251553.36 0.2672 0.1846

Mercury -101224-12-21 00:13 J -35250288.64 -35250288.49 -35250288.35 0.2676 0.0177

Mercury -101220-06-27 19:11 J -35249003.81 -35249003.70 -35249003.60 0.2658 0.1370

Mercury -101211-12-24 02:09 J -35245537.51 -35245537.41 -35245537.31 0.2671 0.1842

Mercury -101207-06-30 14:52 J -35244252.99 -35244252.88 -35244252.76 0.2663 0.0220

Mercury -101194-07-03 10:47 J -35239502.16 -35239502.05 -35239501.94 0.2668 0.0954

Venus -101191-08-01 12:28 J -35238377.09 -35238376.98 -35238376.87 0.2722 0.1948

Mercury -101191-12-19 04:18 J -35238237.44 -35238237.32 -35238237.19 0.2681 0.1161

Mercury -101187-06-26 04:04 J -35236952.38 -35236952.33 -35236952.27 0.2654 0.2302

Venus -101183-07-30 02:37 J -35235457.47 -35235457.39 -35235457.30 0.2718 0.2254

Mercury -101181-07-05 06:13 J -35234751.31 -35234751.24 -35234751.16 0.2672 0.2084

Mercury -101178-12-22 05:59 J -35233486.39 -35233486.25 -35233486.11 0.2676 0.0496

Mercury -101174-06-29 00:13 J -35232201.60 -35232201.49 -35232201.38 0.2659 0.1123

Mercury -101165-12-24 08:09 J -35228735.24 -35228735.16 -35228735.08 0.2670 0.2183

Mercury -101161-06-30 20:09 J -35227450.78 -35227450.66 -35227450.54 0.2663 0.0083

Mercury -101158-12-17 08:52 J -35226186.19 -35226186.13 -35226186.08 0.2685 0.2450

Mercury -101148-07-03 15:49 J -35222699.95 -35222699.84 -35222699.74 0.2668 0.1192

Mercury -101145-12-19 10:18 J -35221435.21 -35221435.07 -35221434.94 0.2680 0.0837

Mercury -101141-06-26 09:21 J -35220150.18 -35220150.11 -35220150.03 0.2655 0.2053

Mercury -101135-07-06 11:16 J -35217949.08 -35217949.03 -35217948.97 0.2673 0.2322

Mercury -101132-12-22 11:59 J -35216684.14 -35216684.00 -35216683.87 0.2675 0.0828

Mercury -101128-06-29 05:16 J -35215399.39 -35215399.28 -35215399.16 0.2659 0.0877

Mercury -101119-12-25 13:54 J -35211932.96 -35211932.92 -35211932.87 0.2670 0.2533

Mercury -101115-07-02 01:11 J -35210648.57 -35210648.45 -35210648.33 0.2664 0.0286

Mercury -101112-12-17 14:37 J -35209383.97 -35209383.89 -35209383.81 0.2685 0.2128

Mercury -101102-07-04 20:52 J -35205897.73 -35205897.63 -35205897.53 0.2669 0.1428

Mercury -101099-12-20 16:04 J -35204632.97 -35204632.83 -35204632.69 0.2679 0.0504

Mercury -101095-06-27 14:23 J -35203347.98 -35203347.90 -35203347.81 0.2655 0.1805

Mercury -101089-07-06 16:18 J -35201146.85 -35201146.82 -35201146.78 0.2673 0.2560

Mercury -101086-12-23 17:45 J -35199881.88 -35199881.76 -35199881.63 0.2674 0.1169

Mercury -101082-06-30 10:33 J -35198597.18 -35198597.06 -35198596.95 0.2660 0.0635

Mercury -101069-07-02 06:13 J -35193846.35 -35193846.24 -35193846.12 0.2665 0.0530

Mercury -101066-12-18 20:37 J -35192581.75 -35192581.64 -35192581.54 0.2684 0.1798

Mercury -101056-07-05 01:54 J -35189095.51 -35189095.42 -35189095.33 0.2669 0.1671

Mercury -101053-12-20 22:04 J -35187830.72 -35187830.58 -35187830.44 0.2679 0.0184

Mercury -101049-06-27 19:40 J -35186545.78 -35186545.68 -35186545.58 0.2656 0.1559

Mercury -101040-12-23 23:45 J -35183079.62 -35183079.51 -35183079.39 0.2674 0.1505

Mercury -101036-06-30 15:35 J -35181794.97 -35181794.85 -35181794.73 0.2661 0.0382

Venus -101029-01-22 17:16 J -35179397.91 -35179397.78 -35179397.64 0.2621 0.1352

Mercury -101023-07-03 11:16 J -35177044.14 -35177044.03 -35177043.91 0.2665 0.0777

Venus -101021-01-20 09:21 J -35176478.18 -35176478.11 -35176478.03 0.2625 0.2299

Mercury -101020-12-19 02:23 J -35175779.52 -35175779.40 -35175779.29 0.2683 0.1472

Mercury -101016-06-26 04:47 J -35174494.34 -35174494.30 -35174494.26 0.2652 0.2495

Mercury -101010-07-06 06:57 J -35172293.29 -35172293.21 -35172293.13 0.2670 0.1911

Mercury -101007-12-22 03:49 J -35171028.48 -35171028.34 -35171028.20 0.2678 0.0191

Mercury -101003-06-29 00:42 J -35169743.57 -35169743.47 -35169743.36 0.2656 0.1311

101ST MILLENNIUM BCE

This is a list of transits visible from Earth in the 101st millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-100994-12-25 05:45 J	-35166277.36	-35166277.26	-35166277.16	0.2673	0.1853		
Mercury	-100990-07-01 20:37 J	-35164992.76	-35164992.64	-35164992.52	0.2661	0.0155		
Mercury	-100977-07-03 16:33 J	-35160241.92	-35160241.81	-35160241.70	0.2666	0.1017		
Mercury	-100974-12-20 08:09 J	-35158977.28	-35158977.16	-35158977.03	0.2683	0.1147		
Mercury	-100970-06-27 09:49 J	-35157692.15	-35157692.09	-35157692.03	0.2652	0.2247		
Mercury	-100964-07-06 11:59 J	-35155491.06	-35155491.00	-35155490.93	0.2671	0.2155		
Mercury	-100961-12-22 09:49 J	-35154226.23	-35154226.09	-35154225.95	0.2677	0.0506		
Mercury	-100957-06-29 05:59 J	-35152941.36	-35152941.25	-35152941.14	0.2657	0.1062		
Venus	-100948-08-01 12:28 J	-35149621.11	-35149620.98	-35149620.86	0.2719	0.1716		
Mercury	-100948-12-25 11:45 J	-35149475.09	-35149475.01	-35149474.93	0.2672	0.2199		
Mercury	-100944-07-02 01:54 J	-35148190.54	-35148190.42	-35148190.30	0.2662	0.0139		
Mercury	-100941-12-17 12:42 J	-35146926.02	-35146925.97	-35146925.91	0.2687	0.2434		
Venus	-100940-07-30 02:52 J	-35146701.44	-35146701.38	-35146701.31	0.2715	0.2435		
Mercury	-100931-07-04 21:35 J	-35143439.71	-35143439.60	-35143439.50	0.2666	0.1254		
Mercury	-100928-12-20 14:09 J	-35142175.05	-35142174.91	-35142174.78	0.2682	0.0825		
Mercury	-100924-06-27 15:06 J	-35140889.95	-35140889.87	-35140889.80	0.2653	0.1999		
Mercury	-100918-07-07 17:16 J	-35138688.83	-35138688.78	-35138688.73	0.2671	0.2392		
Mercury	-100915-12-23 15:35 J	-35137423.98	-35137423.85	-35137423.71	0.2677	0.0847		
Mercury	-100911-06-30 11:01 J	-35136139.15	-35136139.04	-35136138.92	0.2658	0.0815		
Mercury	-100902-12-26 17:45 J	-35132672.80	-35132672.76	-35132672.72	0.2671	0.2540		
Mercury	-100898-07-03 06:57 J	-35131388.33	-35131388.21	-35131388.09	0.2662	0.0350		
Mercury	-100895-12-18 18:28 J	-35130123.81	-35130123.73	-35130123.64	0.2686	0.2113		

Mercury -100885-07-05 02:37 J -35126637.49 -35126637.39 -35126637.29 0.2667 0.1500

Mercury -100882-12-21 19:54 J -35125372.81 -35125372.67 -35125372.53 0.2681 0.0488

Mercury -100878-06-28 20:09 J -35124087.75 -35124087.66 -35124087.57 0.2654 0.1753

Mercury -100872-07-07 22:18 J -35121886.59 -35121886.57 -35121886.56 0.2672 0.2628

Mercury -100869-12-23 21:35 J -35120621.73 -35120621.60 -35120621.48 0.2676 0.1175

Mercury -100865-06-30 16:04 J -35119336.94 -35119336.83 -35119336.71 0.2658 0.0577

Mercury -100852-07-03 11:59 J -35114586.12 -35114586.00 -35114585.88 0.2663 0.0595

Mercury -100849-12-19 00:28 J -35113321.59 -35113321.48 -35113321.38 0.2686 0.1790

Mercury -100839-07-06 07:40 J -35109835.27 -35109835.18 -35109835.09 0.2668 0.1740

Mercury -100836-12-22 01:54 J -35108570.56 -35108570.42 -35108570.29 0.2681 0.0176

Mercury -100832-06-29 01:11 J -35107285.54 -35107285.45 -35107285.35 0.2654 0.1505

Mercury -100823-12-25 03:35 J -35103819.47 -35103819.35 -35103819.24 0.2675 0.1522

Mercury -100819-07-01 21:21 J -35102534.73 -35102534.61 -35102534.49 0.2659 0.0335

Mercury -100806-07-04 17:01 J -35097783.90 -35097783.79 -35097783.67 0.2664 0.0837

Mercury -100803-12-20 06:13 J -35096519.36 -35096519.24 -35096519.13 0.2685 0.1463

Mercury -100799-06-27 10:18 J -35095234.11 -35095234.07 -35095234.02 0.2650 0.2443

Mercury -100793-07-06 12:42 J -35093033.04 -35093032.97 -35093032.89 0.2668 0.1984

Mercury -100790-12-23 07:40 J -35091768.32 -35091768.18 -35091768.04 0.2680 0.0179

Venus -100786-01-22 19:11 J -35090641.84 -35090641.70 -35090641.57 0.2624 0.1441

Mercury -100786-06-30 06:28 J -35090483.34 -35090483.23 -35090483.12 0.2655 0.1252

Venus -100778-01-20 11:01 J -35087722.12 -35087722.04 -35087721.95 0.2628 0.2234

Mercury -100777-12-25 09:21 J -35087017.21 -35087017.11 -35087017.01 0.2675 0.1862

Mercury -100773-07-02 02:23 J -35085732.52 -35085732.40 -35085732.28 0.2659 0.0080

Mercury -100760-07-04 22:18 J -35080981.68 -35080981.57 -35080981.46 0.2664 0.1081

Mercury -100757-12-20 11:59 J -35079717.12 -35079717.00 -35079716.87 0.2685 0.1135

Mercury -100753-06-27 15:35 J -35078431.92 -35078431.85 -35078431.79 0.2651 0.2194

Mercury -100747-07-07 17:59 J -35076230.82 -35076230.75 -35076230.69 0.2669 0.2220

Mercury -100744-12-23 13:40 J -35074966.07 -35074965.93 -35074965.80 0.2679 0.0521

Mercury -100740-06-30 11:30 J -35073681.13 -35073681.02 -35073680.90 0.2655 0.1006

Mercury -100731-12-26 15:21 J -35070214.94 -35070214.86 -35070214.78 0.2674 0.2203

Mercury -100727-07-03 07:25 J -35068930.30 -35068930.19 -35068930.07 0.2660 0.0197

Mercury -100724-12-18 16:47 J -35067665.86 -35067665.80 -35067665.74 0.2689 0.2414

Mercury -100714-07-06 03:21 J -35064179.46 -35064179.36 -35064179.26 0.2665 0.1326

Mercury -100711-12-21 17:59 J -35062914.88 -35062914.75 -35062914.62 0.2684 0.0802

Mercury -100707-06-28 20:37 J -35061629.72 -35061629.64 -35061629.56 0.2651 0.1944

Venus -100705-08-01 12:28 J -35060865.11 -35060864.98 -35060864.85 0.2715 0.1533

Mercury -100701-07-07 23:01 J -35059428.58 -35059428.54 -35059428.50 0.2669 0.2463

Mercury -100698-12-24 19:25 J -35058163.82 -35058163.69 -35058163.56 0.2679 0.0853

Venus -100697-07-30 02:52 J -35057945.41 -35057945.38 -35057945.35 0.2711 0.2641

Mercury -100694-07-01 16:47 J -35056878.92 -35056878.80 -35056878.69 0.2656 0.0760

Mercury -100685-12-26 21:21 J -35053412.65 -35053412.61 -35053412.57 0.2674 0.2549

Mercury -100681-07-03 12:42 J -35052128.09 -35052127.97 -35052127.85 0.2661 0.0417

Mercury -100678-12-19 22:33 J -35050863.65 -35050863.56 -35050863.48 0.2688 0.2095

Mercury -100668-07-06 08:23 J -35047377.24 -35047377.15 -35047377.05 0.2665 0.1569

Mercury -100665-12-21 23:45 J -35046112.64 -35046112.51 -35046112.37 0.2683 0.0473

Mercury -100661-06-29 01:54 J -35044827.52 -35044827.42 -35044827.33 0.2652 0.1695

Mercury -100652-12-25 01:25 J -35041361.57 -35041361.44 -35041361.32 0.2678 0.1196

Mercury -100648-07-01 21:49 J -35040076.71 -35040076.59 -35040076.47 0.2657 0.0510

Mercury -100635-07-04 17:45 J -35035325.87 -35035325.76 -35035325.64 0.2661 0.0658

Mercury -100632-12-20 04:18 J -35034061.42 -35034061.32 -35034061.22 0.2688 0.1775

Mercury -100628-06-27 10:47 J -35032776.05 -35032776.05 -35032776.05 0.2648 0.2644

Mercury -100622-07-07 13:25 J -35030575.02 -35030574.94 -35030574.85 0.2666 0.1812

Mercury -100619-12-23 05:30 J -35029310.40 -35029310.27 -35029310.13 0.2682 0.0165

Mercury -100615-06-30 06:57 J -35028025.31 -35028025.21 -35028025.11 0.2653 0.1444

Mercury -100606-12-26 07:11 J -35024559.31 -35024559.20 -35024559.08 0.2677 0.1534

Mercury -100602-07-03 03:06 J -35023274.49 -35023274.37 -35023274.25 0.2657 0.0270

Mercury -100589-07-04 22:47 J -35018523.66 -35018523.55 -35018523.43 0.2662 0.0910

Mercury -100586-12-21 10:04 J -35017259.19 -35017259.08 -35017258.96 0.2687 0.1449

Mercury -100582-06-28 16:04 J -35015973.88 -35015973.83 -35015973.78 0.2649 0.2395

Mercury -100576-07-07 18:42 J -35013772.80 -35013772.72 -35013772.65 0.2667 0.2053

Mercury -100573-12-23 11:30 J -35012508.16 -35012508.02 -35012507.88 0.2682 0.0192
 Mercury -100569-06-30 12:13 J -35011223.10 -35011222.99 -35011222.89 0.2653 0.1199
 Mercury -100560-12-26 13:11 J -35007757.05 -35007756.95 -35007756.85 0.2677 0.1874
 Mercury -100556-07-03 08:09 J -35006472.28 -35006472.16 -35006472.04 0.2658 0.0015
 Venus -100543-01-22 21:06 J -35001885.75 -35001885.62 -35001885.50 0.2627 0.1560
 Mercury -100543-07-06 04:04 J -35001721.44 -35001721.33 -35001721.23 0.2662 0.1152
 Mercury -100540-12-21 16:04 J -35000456.96 -35000456.83 -35000456.71 0.2686 0.1123
 Mercury -100536-06-28 21:06 J -34999171.69 -34999171.62 -34999171.55 0.2649 0.2140
 Venus -100535-01-20 12:57 J -34998966.05 -34998965.96 -34998965.87 0.2631 0.2149
 Mercury -100530-07-08 23:45 J -34996970.57 -34996970.51 -34996970.45 0.2667 0.2298
 Mercury -100527-12-24 17:16 J -34995705.91 -34995705.78 -34995705.64 0.2681 0.0530
 Mercury -100523-07-01 17:16 J -34994420.89 -34994420.78 -34994420.67 0.2654 0.0947
 Mercury -100514-12-27 18:57 J -34990954.78 -34990954.71 -34990954.63 0.2676 0.2218
 Mercury -100510-07-04 13:11 J -34989670.07 -34989669.95 -34989669.83 0.2658 0.0243
 Mercury -100507-12-19 20:37 J -34988405.70 -34988405.64 -34988405.58 0.2691 0.2404
 Mercury -100497-07-06 09:06 J -34984919.22 -34984919.12 -34984919.02 0.2663 0.1395
 Mercury -100494-12-22 21:49 J -34983654.72 -34983654.59 -34983654.46 0.2686 0.0790
 Mercury -100490-06-30 02:23 J -34982369.49 -34982369.40 -34982369.32 0.2650 0.1886
 Mercury -100484-07-09 04:47 J -34980168.33 -34980168.30 -34980168.27 0.2668 0.2536
 Mercury -100481-12-24 23:16 J -34978903.66 -34978903.53 -34978903.40 0.2680 0.0866
 Mercury -100477-07-01 22:33 J -34977618.68 -34977618.56 -34977618.45 0.2654 0.0702
 Mercury -100468-12-28 00:57 J -34974152.49 -34974152.46 -34974152.42 0.2675 0.2564
 Mercury -100464-07-04 18:28 J -34972867.85 -34972867.73 -34972867.62 0.2659 0.0485
 Venus -100462-08-02 12:42 J -34972109.10 -34972108.97 -34972108.83 0.2712 0.1337
 Mercury -100461-12-20 02:37 J -34971603.48 -34971603.39 -34971603.31 0.2690 0.2079
 Mercury -100451-07-07 14:09 J -34968117.00 -34968116.91 -34968116.82 0.2664 0.1636
 Mercury -100448-12-23 03:35 J -34966852.48 -34966852.35 -34966852.21 0.2685 0.0462
 Mercury -100444-06-30 07:25 J -34965567.28 -34965567.19 -34965567.09 0.2650 0.1636
 Mercury -100435-12-26 05:01 J -34962101.41 -34962101.29 -34962101.16 0.2680 0.1206
 Mercury -100431-07-03 03:35 J -34960816.47 -34960816.35 -34960816.23 0.2655 0.0443

Mercury -100418-07-05 23:30 J -34956065.64 -34956065.52 -34956065.40 0.2660 0.0729
 Mercury -100415-12-21 08:23 J -34954801.26 -34954801.15 -34954801.05 0.2689 0.1757
 Mercury -100411-06-28 16:18 J -34953515.84 -34953515.82 -34953515.79 0.2646 0.2590
 Mercury -100405-07-07 19:11 J -34951314.78 -34951314.70 -34951314.61 0.2664 0.1884
 Mercury -100402-12-24 09:35 J -34950050.24 -34950050.10 -34950049.96 0.2684 0.0139
 Mercury -100398-07-01 12:42 J -34948765.07 -34948764.97 -34948764.87 0.2651 0.1384
 Mercury -100389-12-26 11:01 J -34945299.15 -34945299.04 -34945298.93 0.2679 0.1547
 Mercury -100385-07-03 08:37 J -34944014.26 -34944014.14 -34944014.02 0.2655 0.0214
 Mercury -100372-07-06 04:33 J -34939263.42 -34939263.31 -34939263.19 0.2660 0.0979
 Mercury -100369-12-21 14:09 J -34937999.03 -34937998.91 -34937998.80 0.2689 0.1430
 Mercury -100365-06-28 21:35 J -34936713.65 -34936713.60 -34936713.54 0.2647 0.2336
 Mercury -100359-07-09 00:28 J -34934512.55 -34934512.48 -34934512.41 0.2665 0.2129
 Mercury -100356-12-24 15:21 J -34933248.00 -34933247.86 -34933247.72 0.2684 0.0208
 Mercury -100352-07-01 17:45 J -34931962.87 -34931962.76 -34931962.65 0.2652 0.1133
 Mercury -100343-12-27 17:01 J -34928496.89 -34928496.79 -34928496.70 0.2679 0.1893
 Mercury -100339-07-04 13:54 J -34927212.04 -34927211.92 -34927211.80 0.2656 0.0066
 Mercury -100326-07-07 09:49 J -34922461.20 -34922461.09 -34922460.99 0.2661 0.1224
 Mercury -100323-12-22 19:54 J -34921196.80 -34921196.67 -34921196.54 0.2688 0.1102
 Mercury -100319-06-30 02:52 J -34919911.46 -34919911.38 -34919911.31 0.2648 0.2080
 Mercury -100313-07-09 05:30 J -34917710.32 -34917710.27 -34917710.22 0.2665 0.2371
 Mercury -100310-12-25 21:21 J -34916445.75 -34916445.61 -34916445.48 0.2683 0.0554
 Mercury -100306-07-02 23:01 J -34915160.66 -34915160.54 -34915160.43 0.2652 0.0882
 Venus -100300-01-22 22:33 J -34913129.69 -34913129.56 -34913129.44 0.2630 0.1613
 Mercury -100297-12-27 22:47 J -34911694.62 -34911694.55 -34911694.47 0.2678 0.2237
 Mercury -100293-07-04 18:57 J -34910409.83 -34910409.71 -34910409.59 0.2657 0.0305
 Venus -100292-01-20 14:23 J -34910209.99 -34910209.90 -34910209.80 0.2634 0.2100
 Mercury -100290-12-21 00:42 J -34909145.53 -34909145.47 -34909145.41 0.2692 0.2384
 Mercury -100280-07-07 14:52 J -34905658.98 -34905658.88 -34905658.78 0.2661 0.1466
 Mercury -100277-12-23 01:40 J -34904394.56 -34904394.43 -34904394.30 0.2687 0.0777
 Mercury -100273-06-30 07:54 J -34903109.25 -34903109.17 -34903109.08 0.2648 0.1831

Mercury -100267-07-10 10:33 J -34900908.08 -34900908.06 -34900908.04 0.2666 0.2614

Mercury -100264-12-26 03:06 J -34899643.50 -34899643.37 -34899643.24 0.2682 0.0883

Mercury -100260-07-03 04:04 J -34898358.44 -34898358.33 -34898358.21 0.2653 0.0632

Mercury -100251-12-29 04:47 J -34894892.33 -34894892.30 -34894892.27 0.2677 0.2580

Mercury -100247-07-06 00:13 J -34893607.61 -34893607.49 -34893607.38 0.2657 0.0558

Mercury -100244-12-21 06:28 J -34892343.32 -34892343.23 -34892343.14 0.2692 0.2068

Mercury -100234-07-08 19:54 J -34888856.76 -34888856.67 -34888856.58 0.2662 0.1715

Mercury -100231-12-24 07:25 J -34887592.32 -34887592.19 -34887592.05 0.2687 0.0451

Mercury -100227-07-01 13:11 J -34886307.05 -34886306.95 -34886306.85 0.2649 0.1574

Venus -100219-08-02 13:11 J -34883353.09 -34883352.95 -34883352.81 0.2708 0.1183

Mercury -100218-12-27 08:52 J -34882841.25 -34882841.13 -34882841.00 0.2682 0.1223

Mercury -100214-07-04 09:21 J -34881556.23 -34881556.11 -34881555.99 0.2653 0.0388

Mercury -100201-07-06 05:16 J -34876805.39 -34876805.28 -34876805.17 0.2658 0.0798

Mercury -100198-12-22 12:13 J -34875541.09 -34875540.99 -34875540.88 0.2691 0.1739

Mercury -100194-06-29 22:04 J -34874255.61 -34874255.58 -34874255.55 0.2645 0.2532

Mercury -100188-07-09 01:11 J -34872054.53 -34872054.45 -34872054.37 0.2663 0.1959

Mercury -100185-12-24 13:25 J -34870790.08 -34870789.94 -34870789.80 0.2686 0.0123

Mercury -100181-07-01 18:13 J -34869504.84 -34869504.74 -34869504.63 0.2649 0.1324

Mercury -100172-12-27 14:52 J -34866039.00 -34866038.88 -34866038.77 0.2681 0.1560

Mercury -100168-07-04 14:23 J -34864754.02 -34864753.90 -34864753.78 0.2654 0.0132

Mercury -100155-07-07 10:18 J -34860003.18 -34860003.07 -34860002.96 0.2659 0.1046

Mercury -100152-12-22 17:59 J -34858738.86 -34858738.75 -34858738.63 0.2691 0.1415

Mercury -100148-06-30 03:21 J -34857453.42 -34857453.36 -34857453.30 0.2645 0.2275

Mercury -100142-07-10 06:13 J -34855252.31 -34855252.24 -34855252.18 0.2663 0.2200

Mercury -100139-12-25 19:11 J -34853987.84 -34853987.70 -34853987.56 0.2686 0.0230

Mercury -100135-07-02 23:30 J -34852702.63 -34852702.52 -34852702.41 0.2650 0.1068

Mercury -100126-12-28 20:37 J -34849236.73 -34849236.64 -34849236.54 0.2680 0.1902

Mercury -100122-07-05 19:40 J -34847951.81 -34847951.68 -34847951.56 0.2655 0.0154

Mercury -100119-12-20 23:01 J -34846687.55 -34846687.54 -34846687.53 0.2695 0.2686

Mercury -100109-07-07 15:35 J -34843200.96 -34843200.85 -34843200.75 0.2659 0.1295

Mercury -100106-12-23 23:59 J -34841936.63 -34841936.50 -34841936.38 0.2690 0.1085

Mercury -100102-07-01 08:23 J -34840651.23 -34840651.15 -34840651.07 0.2646 0.2023

Mercury -100096-07-10 11:16 J -34838450.07 -34838450.03 -34838449.99 0.2664 0.2443

Mercury -100093-12-26 01:11 J -34837185.59 -34837185.45 -34837185.32 0.2685 0.0565

Mercury -100089-07-03 04:33 J -34835900.42 -34835900.31 -34835900.19 0.2651 0.0821

Mercury -100080-12-29 02:37 J -34832434.46 -34832434.39 -34832434.32 0.2680 0.2249

Mercury -100076-07-06 00:42 J -34831149.59 -34831149.47 -34831149.35 0.2655 0.0374

Mercury -100073-12-21 04:47 J -34829885.36 -34829885.30 -34829885.24 0.2694 0.2370

Mercury -100063-07-08 20:37 J -34826398.74 -34826398.64 -34826398.54 0.2660 0.1540

Mercury -100060-12-24 05:45 J -34825134.39 -34825134.26 -34825134.13 0.2689 0.0757

Venus -100057-01-24 00:13 J -34824373.61 -34824373.49 -34824373.36 0.2633 0.1714

Mercury -100056-07-01 13:40 J -34823849.02 -34823848.93 -34823848.84 0.2647 0.1765

Venus -100049-01-21 16:04 J -34821453.93 -34821453.83 -34821453.73 0.2637 0.2057

Mercury -100047-12-27 06:57 J -34820383.34 -34820383.21 -34820383.08 0.2684 0.0902

Mercury -100043-07-04 09:49 J -34819098.21 -34819098.09 -34819097.97 0.2651 0.0564

Mercury -100034-12-30 08:37 J -34815632.18 -34815632.14 -34815632.11 0.2679 0.2594

Mercury -100030-07-07 05:45 J -34814347.37 -34814347.26 -34814347.14 0.2656 0.0628

Mercury -100027-12-22 10:33 J -34813083.15 -34813083.06 -34813082.97 0.2694 0.2043

Mercury -100017-07-09 01:40 J -34809596.51 -34809596.43 -34809596.34 0.2660 0.1790

Mercury -100014-12-25 11:30 J -34808332.16 -34808332.02 -34808331.88 0.2689 0.0426

Mercury -100010-07-02 18:42 J -34807046.82 -34807046.72 -34807046.62 0.2647 0.1515

Mercury -100001-12-27 12:42 J -34803581.09 -34803580.97 -34803580.84 0.2683 0.1236

100TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 100th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-99997-07-04 14:52 J	-34802296.00	-34802295.88	-34802295.76	0.2652	0.0323		
Mercury	-99984-07-07 11:01 J	-34797545.16	-34797545.04	-34797544.93	0.2656	0.0870		
Mercury	-99981-12-22 16:18 J	-34796280.92	-34796280.82	-34796280.72	0.2693	0.1723		
Mercury	-99977-06-30 03:35 J	-34794995.39	-34794995.35	-34794995.31	0.2643	0.2475		
Venus	-99976-08-02 13:40 J	-34794597.08	-34794596.93	-34794596.79	0.2705	0.1033		
Mercury	-99971-07-10 06:57 J	-34792794.29	-34792794.21	-34792794.14	0.2661	0.2035		
Mercury	-99968-12-25 17:16 J	-34791529.91	-34791529.78	-34791529.64	0.2688	0.0108		
Mercury	-99964-07-02 23:59 J	-34790244.61	-34790244.50	-34790244.39	0.2648	0.1258		
Mercury	-99955-12-28 18:42 J	-34786778.83	-34786778.72	-34786778.61	0.2683	0.1578		
Mercury	-99951-07-05 20:09 J	-34785493.78	-34785493.66	-34785493.54	0.2652	0.0075		
Mercury	-99938-07-08 16:04 J	-34780742.94	-34780742.83	-34780742.72	0.2657	0.1119		
Mercury	-99935-12-23 22:04 J	-34779478.70	-34779478.58	-34779478.46	0.2692	0.1397		
Mercury	-99931-07-01 08:52 J	-34778193.20	-34778193.13	-34778193.07	0.2644	0.2218		
Mercury	-99925-07-10 11:59 J	-34775992.06	-34775992.00	-34775991.94	0.2662	0.2278		
Mercury	-99922-12-26 23:01 J	-34774727.67	-34774727.54	-34774727.40	0.2687	0.0252		
Mercury	-99918-07-04 05:01 J	-34773442.40	-34773442.29	-34773442.17	0.2648	0.1011		
Mercury	-99909-12-29 00:28 J	-34769976.57	-34769976.48	-34769976.38	0.2682	0.1917		
Mercury	-99905-07-06 01:11 J	-34768691.57	-34768691.45	-34768691.33	0.2653	0.0201		
Mercury	-99902-12-22 03:06 J	-34767427.39	-34767427.37	-34767427.36	0.2697	0.2671		
Mercury	-99892-07-08 21:06 J	-34763940.72	-34763940.62	-34763940.51	0.2657	0.1368		
Mercury	-99889-12-24 03:49 J	-34762676.47	-34762676.34	-34762676.21	0.2692	0.1075		
Mercury	-99885-07-01 13:54 J	-34761391.00	-34761390.92	-34761390.83	0.2644	0.1964		
Mercury	-99879-07-11 17:01 J	-34759189.82	-34759189.79	-34759189.75	0.2662	0.2523		
Mercury	-99876-12-27 05:01 J	-34757925.43	-34757925.29	-34757925.16	0.2687	0.0577		
Mercury	-99872-07-04 10:18 J	-34756640.19	-34756640.07	-34756639.95	0.2649	0.0750		

Mercury -99863-12-30 06:28 J -34753174.31 -34753174.23 -34753174.16 0.2681 0.2259

Mercury -99859-07-07 06:28 J -34751889.35 -34751889.23 -34751889.11 0.2654 0.0443

Mercury -99856-12-22 08:52 J -34750625.19 -34750625.13 -34750625.07 0.2696 0.2347

Mercury -99846-07-10 02:23 J -34747138.50 -34747138.40 -34747138.31 0.2658 0.1614

Mercury -99843-12-25 09:35 J -34745874.23 -34745874.10 -34745873.96 0.2691 0.0742

Mercury -99839-07-02 19:11 J -34744588.79 -34744588.70 -34744588.61 0.2645 0.1706

Mercury -99830-12-28 10:47 J -34741123.18 -34741123.05 -34741122.92 0.2686 0.0906

Mercury -99826-07-05 15:21 J -34739837.97 -34739837.86 -34739837.74 0.2650 0.0509

Mercury -99817-12-30 12:13 J -34736372.02 -34736371.99 -34736371.96 0.2681 0.2602

Venus -99814-01-24 01:25 J -34735617.56 -34735617.44 -34735617.32 0.2636 0.1734

Mercury -99813-07-07 11:30 J -34735087.13 -34735087.02 -34735086.90 0.2654 0.0693

Mercury -99810-12-23 14:37 J -34733822.98 -34733822.89 -34733822.80 0.2695 0.2025

Venus -99806-01-21 17:16 J -34732697.88 -34732697.78 -34732697.68 0.2641 0.2037

Mercury -99800-07-10 07:25 J -34730336.27 -34730336.19 -34730336.10 0.2659 0.1861

Mercury -99797-12-25 15:35 J -34729071.99 -34729071.85 -34729071.72 0.2690 0.0414

Mercury -99793-07-03 00:28 J -34727786.58 -34727786.48 -34727786.38 0.2645 0.1448

Mercury -99784-12-28 16:33 J -34724320.93 -34724320.81 -34724320.68 0.2685 0.1257

Mercury -99780-07-05 20:37 J -34723035.76 -34723035.64 -34723035.52 0.2650 0.0246

Mercury -99767-07-08 16:47 J -34718284.92 -34718284.80 -34718284.69 0.2655 0.0946

Mercury -99764-12-23 20:23 J -34717020.76 -34717020.65 -34717020.55 0.2695 0.1704

Mercury -99760-07-01 09:06 J -34715735.16 -34715735.12 -34715735.07 0.2642 0.2415

Mercury -99754-07-11 12:42 J -34713534.05 -34713533.97 -34713533.90 0.2659 0.2113

Mercury -99751-12-26 21:20 J -34712269.75 -34712269.61 -34712269.48 0.2690 0.0095

Mercury -99747-07-04 05:30 J -34710984.37 -34710984.27 -34710984.16 0.2646 0.1198

Mercury -99738-12-29 22:32 J -34707518.67 -34707518.56 -34707518.45 0.2685 0.1592

Mercury -99734-07-07 01:54 J -34706233.55 -34706233.42 -34706233.30 0.2651 0.0090

Venus -99733-08-02 14:23 J -34705841.05 -34705840.90 -34705840.76 0.2702 0.0900

Mercury -99721-07-08 21:49 J -34701482.70 -34701482.59 -34701482.48 0.2655 0.1192

Mercury -99718-12-25 02:08 J -34700218.53 -34700218.41 -34700218.30 0.2694 0.1385

Mercury -99714-07-02 14:23 J -34698932.97 -34698932.90 -34698932.83 0.2642 0.2161

Mercury -99708-07-11 17:44 J -34696731.81 -34696731.76 -34696731.71 0.2660 0.2356

Mercury -99705-12-27 03:06 J -34695467.51 -34695467.37 -34695467.24 0.2689 0.0258

Mercury -99701-07-04 10:47 J -34694182.16 -34694182.05 -34694181.94 0.2647 0.0938

Mercury -99692-12-30 04:18 J -34690716.41 -34690716.32 -34690716.22 0.2684 0.1934

Mercury -99688-07-07 06:56 J -34689431.33 -34689431.21 -34689431.09 0.2651 0.0260

Mercury -99685-12-22 07:11 J -34688167.22 -34688167.20 -34688167.18 0.2698 0.2652

Mercury -99675-07-10 02:52 J -34684680.48 -34684680.38 -34684680.28 0.2656 0.1444

Mercury -99672-12-25 07:54 J -34683416.30 -34683416.17 -34683416.05 0.2693 0.1053

Mercury -99668-07-02 19:40 J -34682130.77 -34682130.68 -34682130.60 0.2643 0.1905

Mercury -99662-07-12 22:47 J -34679929.57 -34679929.55 -34679929.53 0.2660 0.2605

Mercury -99659-12-28 08:52 J -34678665.27 -34678665.13 -34678665.00 0.2688 0.0586

Mercury -99655-07-05 15:49 J -34677379.95 -34677379.84 -34677379.72 0.2647 0.0694

Mercury -99646-12-31 10:04 J -34673914.15 -34673914.08 -34673914.00 0.2683 0.2272

Mercury -99642-07-08 11:59 J -34672629.11 -34672629.00 -34672628.88 0.2652 0.0519

Mercury -99639-12-23 12:56 J -34671365.03 -34671364.96 -34671364.90 0.2698 0.2335

Mercury -99629-07-10 08:08 J -34667878.25 -34667878.16 -34667878.07 0.2656 0.1692

Mercury -99626-12-26 13:40 J -34666614.06 -34666613.93 -34666613.80 0.2693 0.0727

Mercury -99622-07-04 00:42 J -34665328.56 -34665328.47 -34665328.37 0.2643 0.1647

Mercury -99613-12-28 14:37 J -34661863.02 -34661862.89 -34661862.76 0.2688 0.0929

Mercury -99609-07-05 21:06 J -34660577.74 -34660577.62 -34660577.50 0.2648 0.0432

Mercury -99600-12-31 16:04 J -34657111.86 -34657111.83 -34657111.80 0.2683 0.2618

Mercury -99596-07-08 17:16 J -34655826.90 -34655826.78 -34655826.67 0.2652 0.0762

Mercury -99593-12-23 18:42 J -34654562.81 -34654562.72 -34654562.63 0.2697 0.2016

Mercury -99589-07-01 09:35 J -34653277.11 -34653277.10 -34653277.09 0.2640 0.2615

Mercury -99583-07-11 13:11 J -34651076.03 -34651075.95 -34651075.87 0.2657 0.1939

Mercury -99580-12-26 19:25 J -34649811.83 -34649811.69 -34649811.56 0.2692 0.0399

Mercury -99576-07-04 05:59 J -34648526.35 -34648526.25 -34648526.15 0.2644 0.1387

Venus -99571-01-24 03:06 J -34646861.49 -34646861.37 -34646861.26 0.2640 0.1781

Mercury -99567-12-29 20:23 J -34645060.77 -34645060.65 -34645060.52 0.2687 0.1265

Venus -99563-01-21 18:28 J -34643941.83 -34643941.73 -34643941.63 0.2644 0.2036

Mercury -99563-07-07 02:23 J -34643775.53 -34643775.40 -34643775.28 0.2649 0.0200

Mercury -99550-07-09 22:18 J -34639024.68 -34639024.57 -34639024.46 0.2653 0.1018

Mercury -99547-12-25 00:28 J -34637760.59 -34637760.48 -34637760.38 0.2697 0.1690

Mercury -99543-07-02 14:52 J -34636474.94 -34636474.88 -34636474.83 0.2640 0.2359

Mercury -99537-07-11 18:13 J -34634273.80 -34634273.74 -34634273.67 0.2658 0.2186

Mercury -99534-12-28 01:11 J -34633009.59 -34633009.45 -34633009.31 0.2692 0.0068

Mercury -99530-07-05 11:16 J -34631724.14 -34631724.03 -34631723.92 0.2645 0.1130

Mercury -99521-12-30 02:23 J -34628258.51 -34628258.40 -34628258.29 0.2686 0.1602

Mercury -99517-07-07 07:25 J -34626973.31 -34626973.19 -34626973.07 0.2649 0.0079

Mercury -99504-07-10 03:35 J -34622222.46 -34622222.35 -34622222.25 0.2654 0.1267

Mercury -99501-12-25 06:13 J -34620958.36 -34620958.24 -34620958.13 0.2696 0.1362

Mercury -99497-07-02 19:54 J -34619672.74 -34619672.67 -34619672.59 0.2641 0.2100

Mercury -99491-07-12 23:30 J -34617471.57 -34617471.52 -34617471.48 0.2658 0.2437

Venus -99490-08-03 14:52 J -34617085.03 -34617084.88 -34617084.73 0.2698 0.0759

Mercury -99488-12-28 06:56 J -34616207.34 -34616207.21 -34616207.07 0.2691 0.0278

Mercury -99484-07-05 16:18 J -34614921.93 -34614921.82 -34614921.70 0.2645 0.0877

Mercury -99475-12-31 08:08 J -34611456.25 -34611456.16 -34611456.07 0.2686 0.1941

Mercury -99471-07-08 12:42 J -34610171.09 -34610170.97 -34610170.85 0.2650 0.0344

Mercury -99468-12-23 11:16 J -34608907.05 -34608907.03 -34608907.00 0.2700 0.2636

Mercury -99458-07-11 08:37 J -34605420.24 -34605420.14 -34605420.04 0.2654 0.1520

Mercury -99455-12-26 11:59 J -34604156.13 -34604156.00 -34604155.88 0.2695 0.1039

Mercury -99451-07-04 01:11 J -34602870.54 -34602870.45 -34602870.36 0.2641 0.1837

Mercury -99442-12-29 12:56 J -34599405.10 -34599404.96 -34599404.83 0.2690 0.0612

Mercury -99438-07-06 21:35 J -34598119.72 -34598119.60 -34598119.48 0.2646 0.0617

Mercury -99429-12-31 14:08 J -34594653.98 -34594653.91 -34594653.84 0.2685 0.2293

Mercury -99425-07-08 17:44 J -34593368.88 -34593368.76 -34593368.64 0.2650 0.0584

Mercury -99422-12-24 17:01 J -34592104.86 -34592104.79 -34592104.72 0.2699 0.2318

Mercury -99412-07-11 13:54 J -34588618.01 -34588617.92 -34588617.84 0.2655 0.1769

Mercury -99409-12-26 17:44 J -34587353.90 -34587353.76 -34587353.63 0.2694 0.0716

Mercury -99405-07-04 06:28 J -34586068.33 -34586068.23 -34586068.14 0.2642 0.1581

Mercury -99396-12-29 18:42 J -34582602.85 -34582602.72 -34582602.60 0.2689 0.0944

Mercury -99392-07-07 02:37 J -34581317.51 -34581317.39 -34581317.26 0.2646 0.0375

Mercury -99382-01-01 19:54 J -34577851.69 -34577851.67 -34577851.65 0.2684 0.2633

Mercury -99379-07-09 23:01 J -34576566.66 -34576566.54 -34576566.43 0.2651 0.0845

Mercury -99376-12-24 22:47 J -34575302.64 -34575302.55 -34575302.46 0.2699 0.1998

Mercury -99372-07-02 15:06 J -34574016.90 -34574016.87 -34574016.84 0.2638 0.2560

Mercury -99366-07-12 18:56 J -34571815.79 -34571815.71 -34571815.63 0.2655 0.2016

Mercury -99363-12-27 23:30 J -34570551.66 -34570551.52 -34570551.39 0.2694 0.0392

Mercury -99359-07-05 11:30 J -34569266.12 -34569266.02 -34569265.91 0.2642 0.1327

Mercury -99350-12-31 00:28 J -34565800.60 -34565800.48 -34565800.36 0.2689 0.1278

Mercury -99346-07-08 07:54 J -34564515.29 -34564515.17 -34564515.05 0.2647 0.0105

Mercury -99333-07-10 04:04 J -34559764.44 -34559764.33 -34559764.22 0.2651 0.1090

Mercury -99330-12-26 04:32 J -34558500.42 -34558500.31 -34558500.21 0.2698 0.1674

Venus -99328-01-24 04:04 J -34558105.45 -34558105.33 -34558105.22 0.2643 0.1771

Mercury -99326-07-03 20:23 J -34557214.71 -34557214.65 -34557214.59 0.2639 0.2299

Venus -99320-01-21 19:25 J -34555185.78 -34555185.69 -34555185.59 0.2647 0.2065

Mercury -99320-07-12 23:59 J -34555013.56 -34555013.50 -34555013.44 0.2656 0.2268

Mercury -99317-12-28 05:16 J -34553749.42 -34553749.28 -34553749.15 0.2693 0.0067

Mercury -99313-07-05 16:47 J -34552463.91 -34552463.80 -34552463.69 0.2643 0.1066

Mercury -99304-12-31 06:13 J -34548998.35 -34548998.24 -34548998.13 0.2688 0.1615

Mercury -99300-07-08 13:11 J -34547713.08 -34547712.95 -34547712.83 0.2648 0.0174

Mercury -99287-07-11 09:06 J -34542962.22 -34542962.12 -34542962.01 0.2652 0.1345

Mercury -99284-12-26 10:04 J -34541698.19 -34541698.08 -34541697.96 0.2698 0.1353

Mercury -99280-07-04 01:40 J -34540412.51 -34540412.43 -34540412.36 0.2639 0.2035

Mercury -99274-07-14 05:16 J -34538211.32 -34538211.28 -34538211.25 0.2657 0.2516

Mercury -99271-12-29 11:01 J -34536947.18 -34536947.04 -34536946.91 0.2693 0.0286

Mercury -99267-07-06 22:04 J -34535661.70 -34535661.58 -34535661.47 0.2644 0.0809

Mercury -99257-01-01 11:59 J -34532196.09 -34532196.00 -34532195.90 0.2688 0.1959

Mercury -99254-07-09 18:13 J -34530910.86 -34530910.74 -34530910.62 0.2648 0.0403

Mercury -99251-12-24 15:20 J -34529646.89 -34529646.86 -34529646.83 0.2702 0.2617

Venus -99247-08-03 15:35 J -34528329.00 -34528328.85 -34528328.70 0.2695 0.0662

Mercury -99241-07-11 14:23 J -34526160.00 -34526159.90 -34526159.81 0.2653 0.1590

Mercury -99238-12-27 16:04 J -34524895.96 -34524895.83 -34524895.71 0.2697 0.1027

Mercury -99234-07-05 06:42 J -34523610.31 -34523610.22 -34523610.13 0.2640 0.1776

Mercury -99225-12-29 16:47 J -34520144.94 -34520144.80 -34520144.67 0.2692 0.0618

Mercury -99221-07-07 03:06 J -34518859.49 -34518859.37 -34518859.25 0.2644 0.0551

Mercury -99211-01-01 17:44 J -34515393.83 -34515393.76 -34515393.69 0.2687 0.2297

Mercury -99208-07-09 23:30 J -34514108.64 -34514108.52 -34514108.41 0.2649 0.0663

Mercury -99205-12-24 21:06 J -34512844.69 -34512844.62 -34512844.55 0.2701 0.2299

Mercury -99195-07-12 19:25 J -34509357.77 -34509357.69 -34509357.60 0.2653 0.1844

Mercury -99192-12-27 21:35 J -34508093.73 -34508093.60 -34508093.46 0.2696 0.0699

Mercury -99188-07-05 11:59 J -34506808.10 -34506808.00 -34506807.90 0.2640 0.1516

Mercury -99179-12-30 22:32 J -34503342.69 -34503342.56 -34503342.43 0.2691 0.0954

Mercury -99175-07-08 08:23 J -34502057.27 -34502057.15 -34502057.03 0.2645 0.0291

Mercury -99165-01-02 23:44 J -34498591.53 -34498591.51 -34498591.49 0.2686 0.2641

Mercury -99162-07-11 04:32 J -34497306.42 -34497306.31 -34497306.20 0.2649 0.0913

Mercury -99159-12-26 02:52 J -34496042.47 -34496042.38 -34496042.29 0.2701 0.1975

Mercury -99155-07-03 20:37 J -34494756.68 -34494756.64 -34494756.60 0.2636 0.2496

Mercury -99149-07-13 00:42 J -34492555.55 -34492555.47 -34492555.40 0.2654 0.2096

Mercury -99146-12-29 03:35 J -34491291.49 -34491291.35 -34491291.22 0.2696 0.0369

Mercury -99142-07-06 17:16 J -34490005.89 -34490005.78 -34490005.68 0.2641 0.1258

Mercury -99133-12-31 04:18 J -34486540.44 -34486540.32 -34486540.20 0.2691 0.1293

Mercury -99129-07-08 13:25 J -34485255.06 -34485254.94 -34485254.81 0.2645 0.0106

Mercury -99116-07-11 09:49 J -34480504.20 -34480504.09 -34480503.99 0.2650 0.1168

Mercury -99113-12-26 08:37 J -34479240.25 -34479240.14 -34479240.04 0.2700 0.1657

Mercury -99109-07-04 01:54 J -34477954.48 -34477954.42 -34477954.36 0.2637 0.2233

Mercury -99103-07-14 05:44 J -34475753.31 -34475753.26 -34475753.21 0.2654 0.2348

Mercury -99100-12-29 09:06 J -34474489.25 -34474489.12 -34474488.98 0.2695 0.0093

Mercury -99096-07-06 22:18 J -34473203.68 -34473203.57 -34473203.45 0.2641 0.0997

Mercury -99086-01-01 10:04 J -34469738.18 -34469738.08 -34469737.97 0.2690 0.1635

Venus -99085-01-25 05:16 J -34469349.40 -34469349.28 -34469349.17 0.2646 0.1778

Mercury -99083-07-09 18:42 J -34468452.84 -34468452.72 -34468452.60 0.2646 0.0221

Venus -99077-01-22 20:37 J -34466429.74 -34466429.64 -34466429.55 0.2651 0.2091

Mercury -99070-07-12 14:52 J -34463701.98 -34463701.88 -34463701.78 0.2650 0.1417

Mercury -99067-12-27 14:23 J -34462438.02 -34462437.90 -34462437.79 0.2699 0.1332

Mercury -99063-07-05 07:11 J -34461152.28 -34461152.20 -34461152.12 0.2638 0.1976

Mercury -99057-07-14 10:47 J -34458951.07 -34458951.05 -34458951.02 0.2655 0.2596

Mercury -99054-12-30 14:52 J -34457687.01 -34457686.88 -34457686.74 0.2694 0.0306

Mercury -99050-07-08 03:35 J -34456401.47 -34456401.35 -34456401.23 0.2642 0.0738

Mercury -99040-01-01 15:49 J -34452935.93 -34452935.84 -34452935.74 0.2689 0.1973

Mercury -99037-07-09 23:59 J -34451650.62 -34451650.50 -34451650.38 0.2646 0.0485

Mercury -99034-12-25 19:40 J -34450386.71 -34450386.68 -34450386.65 0.2703 0.2601

Mercury -99024-07-12 19:54 J -34446899.76 -34446899.67 -34446899.57 0.2651 0.1677

Mercury -99021-12-27 19:54 J -34445635.79 -34445635.67 -34445635.54 0.2699 0.1011

Mercury -99017-07-05 12:13 J -34444350.08 -34444349.99 -34444349.89 0.2638 0.1713

Mercury -99008-12-30 20:37 J -34440884.77 -34440884.64 -34440884.50 0.2694 0.0636

Mercury -99004-07-08 08:52 J -34439599.25 -34439599.13 -34439599.01 0.2643 0.0489

Venus -99004-08-03 16:18 J -34439572.98 -34439572.82 -34439572.67 0.2691 0.0529

99TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 99th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-98994-01-02 21:49 J	-34436133.66	-34436133.59	-34436133.52	0.2689	0.2311		

Mercury -98991-07-11 05:01 J -34434848.41 -34434848.29 -34434848.17 0.2647 0.0732

Mercury -98988-12-26 01:25 J -34433584.51 -34433584.44 -34433584.37 0.2703 0.2281

Mercury -98978-07-14 01:11 J -34430097.53 -34430097.45 -34430097.37 0.2652 0.1924

Mercury -98975-12-29 01:40 J -34428833.56 -34428833.43 -34428833.30 0.2698 0.0682

Mercury -98971-07-06 17:30 J -34427547.87 -34427547.77 -34427547.67 0.2639 0.1451

Mercury -98961-01-01 02:23 J -34424082.52 -34424082.40 -34424082.27 0.2693 0.0969

Mercury -98958-07-09 13:54 J -34422797.04 -34422796.92 -34422796.80 0.2643 0.0224

Mercury -98948-01-03 03:35 J -34419331.37 -34419331.35 -34419331.33 0.2688 0.2654

Mercury -98945-07-11 10:18 J -34418046.19 -34418046.07 -34418045.96 0.2648 0.0989

Mercury -98942-12-27 06:56 J -34416782.30 -34416782.21 -34416782.12 0.2702 0.1962

Mercury -98938-07-05 02:08 J -34415496.45 -34415496.41 -34415496.36 0.2635 0.2434

Mercury -98932-07-14 06:13 J -34413295.30 -34413295.24 -34413295.17 0.2652 0.2177

Mercury -98929-12-29 07:25 J -34412031.32 -34412031.19 -34412031.05 0.2697 0.0351

Mercury -98925-07-06 22:47 J -34410745.66 -34410745.55 -34410745.44 0.2639 0.1185

Mercury -98915-01-01 08:23 J -34407280.27 -34407280.15 -34407280.04 0.2692 0.1307

Mercury -98912-07-09 19:11 J -34405994.82 -34405994.70 -34405994.58 0.2644 0.0059

Mercury -98899-07-12 15:20 J -34401243.97 -34401243.86 -34401243.75 0.2648 0.1242

Mercury -98896-12-27 12:42 J -34399980.07 -34399979.97 -34399979.86 0.2702 0.1634

Mercury -98892-07-05 07:25 J -34398694.26 -34398694.19 -34398694.12 0.2636 0.2170

Mercury -98886-07-15 11:30 J -34396493.07 -34396493.02 -34396492.98 0.2653 0.2426

Mercury -98883-12-30 13:11 J -34395229.08 -34395228.95 -34395228.81 0.2697 0.0063

Mercury -98879-07-08 04:04 J -34393943.45 -34393943.33 -34393943.22 0.2640 0.0933

Mercury -98869-01-02 14:08 J -34390478.02 -34390477.91 -34390477.81 0.2692 0.1645

Mercury -98866-07-11 00:13 J -34389192.61 -34389192.49 -34389192.36 0.2644 0.0315

Mercury -98853-07-12 20:37 J -34384441.74 -34384441.64 -34384441.54 0.2649 0.1501

Mercury -98850-12-28 18:28 J -34383177.85 -34383177.73 -34383177.61 0.2701 0.1315

Mercury -98846-07-06 12:42 J -34381892.06 -34381891.97 -34381891.89 0.2636 0.1908

Venus -98842-01-25 05:59 J -34380593.37 -34380593.25 -34380593.13 0.2650 0.1741

Mercury -98837-12-30 18:56 J -34378426.84 -34378426.71 -34378426.57 0.2696 0.0322

Venus -98834-01-22 21:20 J -34377673.70 -34377673.61 -34377673.52 0.2654 0.2149

Mercury -98833-07-08 09:06 J -34377141.24 -34377141.12 -34377141.00 0.2641 0.0669

Mercury -98823-01-02 19:54 J -34373675.76 -34373675.67 -34373675.58 0.2691 0.1988

Mercury -98820-07-11 05:30 J -34372390.39 -34372390.27 -34372390.15 0.2645 0.0553

Mercury -98817-12-25 23:44 J -34371126.54 -34371126.51 -34371126.47 0.2705 0.2581

Mercury -98807-07-14 01:40 J -34367639.52 -34367639.43 -34367639.34 0.2649 0.1755

Mercury -98804-12-29 00:13 J -34366375.62 -34366375.49 -34366375.37 0.2700 0.0988

Mercury -98800-07-06 17:44 J -34365089.85 -34365089.76 -34365089.66 0.2637 0.1648

Mercury -98790-01-01 00:42 J -34361624.60 -34361624.47 -34361624.34 0.2695 0.0651

Mercury -98787-07-09 14:23 J -34360339.02 -34360338.90 -34360338.78 0.2641 0.0408

Mercury -98777-01-04 01:40 J -34356873.50 -34356873.43 -34356873.36 0.2690 0.2329

Mercury -98774-07-12 10:47 J -34355588.17 -34355588.05 -34355587.94 0.2646 0.0814

Mercury -98771-12-27 05:30 J -34354324.34 -34354324.27 -34354324.20 0.2705 0.2262

Mercury -98761-07-14 06:56 J -34350837.29 -34350837.21 -34350837.14 0.2650 0.2008

Venus -98761-08-03 17:30 J -34350816.93 -34350816.77 -34350816.62 0.2688 0.0485

Mercury -98758-12-30 05:44 J -34349573.39 -34349573.26 -34349573.13 0.2700 0.0666

Mercury -98754-07-07 23:01 J -34348287.64 -34348287.54 -34348287.43 0.2637 0.1382

Mercury -98744-01-01 06:28 J -34344822.35 -34344822.23 -34344822.10 0.2695 0.0988

Mercury -98741-07-09 19:40 J -34343536.81 -34343536.68 -34343536.56 0.2642 0.0178

Mercury -98731-01-04 07:25 J -34340071.20 -34340071.19 -34340071.17 0.2690 0.2672

Mercury -98728-07-12 15:49 J -34338785.95 -34338785.84 -34338785.73 0.2646 0.1068

Mercury -98725-12-27 11:16 J -34337522.13 -34337522.03 -34337521.94 0.2704 0.1944

Mercury -98721-07-05 07:40 J -34336236.23 -34336236.18 -34336236.13 0.2634 0.2370

Mercury -98715-07-15 11:59 J -34334035.06 -34334035.00 -34334034.94 0.2651 0.2260

Mercury -98712-12-30 11:30 J -34332771.15 -34332771.02 -34332770.88 0.2699 0.0338

Mercury -98708-07-08 04:18 J -34331485.43 -34331485.32 -34331485.21 0.2638 0.1122

Mercury -98698-01-02 12:13 J -34328020.11 -34328019.99 -34328019.87 0.2694 0.1321

Mercury -98695-07-11 00:42 J -34326734.59 -34326734.47 -34326734.35 0.2642 0.0119

Mercury -98682-07-13 21:06 J -34321983.73 -34321983.62 -34321983.52 0.2647 0.1325

Mercury -98679-12-28 16:47 J -34320719.90 -34320719.80 -34320719.69 0.2703 0.1624

Mercury -98675-07-06 12:56 J -34319434.03 -34319433.96 -34319433.89 0.2634 0.2108

Mercury -98669-07-15 17:16 J -34317232.82 -34317232.78 -34317232.75 0.2651 0.2515

Mercury -98666-12-31 17:16 J -34315968.91 -34315968.78 -34315968.64 0.2698 0.0020

Mercury -98662-07-09 09:35 J -34314683.22 -34314683.10 -34314682.99 0.2639 0.0859

Mercury -98652-01-02 17:59 J -34311217.85 -34311217.75 -34311217.64 0.2694 0.1663

Mercury -98649-07-11 05:59 J -34309932.37 -34309932.25 -34309932.13 0.2643 0.0373

Mercury -98636-07-14 02:08 J -34305181.50 -34305181.41 -34305181.31 0.2647 0.1580

Mercury -98633-12-28 22:32 J -34303917.68 -34303917.56 -34303917.44 0.2703 0.1293

Mercury -98629-07-06 18:13 J -34302631.83 -34302631.74 -34302631.65 0.2635 0.1840

Mercury -98620-12-31 23:01 J -34299166.67 -34299166.54 -34299166.40 0.2698 0.0332

Mercury -98616-07-09 14:37 J -34297881.01 -34297880.89 -34297880.77 0.2639 0.0601

Mercury -98606-01-03 23:44 J -34294415.60 -34294415.51 -34294415.42 0.2693 0.1997

Mercury -98603-07-12 11:01 J -34293130.15 -34293130.04 -34293129.92 0.2644 0.0641

Mercury -98600-12-27 04:04 J -34291866.37 -34291866.33 -34291866.29 0.2707 0.2556

Venus -98599-01-25 06:56 J -34291837.33 -34291837.21 -34291837.09 0.2653 0.1723

Venus -98591-01-22 22:18 J -34288917.66 -34288917.57 -34288917.49 0.2658 0.2206

Mercury -98590-07-15 07:25 J -34288379.28 -34288379.19 -34288379.11 0.2648 0.1835

Mercury -98587-12-30 04:18 J -34287115.44 -34287115.32 -34287115.19 0.2702 0.0967

Mercury -98583-07-07 23:30 J -34285829.62 -34285829.52 -34285829.42 0.2635 0.1577

Mercury -98573-01-02 04:47 J -34282364.43 -34282364.30 -34282364.17 0.2697 0.0671

Mercury -98570-07-10 19:54 J -34281078.79 -34281078.67 -34281078.54 0.2640 0.0334

Mercury -98560-01-04 05:44 J -34277613.33 -34277613.26 -34277613.20 0.2692 0.2345

Mercury -98557-07-12 16:18 J -34276327.93 -34276327.82 -34276327.70 0.2644 0.0890

Mercury -98554-12-28 09:49 J -34275064.17 -34275064.09 -34275064.02 0.2706 0.2243

Mercury -98550-07-06 07:54 J -34273778.19 -34273778.17 -34273778.15 0.2632 0.2570

Mercury -98544-07-15 12:28 J -34271577.05 -34271576.98 -34271576.90 0.2649 0.2092

Mercury -98541-12-30 10:04 J -34270313.21 -34270313.08 -34270312.95 0.2701 0.0638

Mercury -98537-07-08 04:32 J -34269027.41 -34269027.31 -34269027.20 0.2636 0.1312

Mercury -98527-01-02 10:32 J -34265562.18 -34265562.06 -34265561.93 0.2697 0.1005

Mercury -98524-07-11 01:11 J -34264276.57 -34264276.45 -34264276.33 0.2640 0.0072

Venus -98518-08-04 18:28 J -34262060.89 -34262060.73 -34262060.58 0.2684 0.0401

Mercury -98514-01-05 11:30 J -34260811.02 -34260811.02 -34260811.02 0.2692 0.2689

Mercury -98511-07-13 21:35 J -34259525.71 -34259525.60 -34259525.49 0.2645 0.1152

Mercury -98508-12-28 15:20 J -34258261.95 -34258261.86 -34258261.76 0.2705 0.1921

Mercury -98504-07-06 13:11 J -34256976.01 -34256975.95 -34256975.89 0.2632 0.2308

Mercury -98498-07-16 17:44 J -34254774.82 -34254774.76 -34254774.71 0.2649 0.2346

Mercury -98495-12-31 15:49 J -34253510.98 -34253510.84 -34253510.71 0.2701 0.0328

Mercury -98491-07-09 09:49 J -34252225.20 -34252225.09 -34252224.97 0.2636 0.1047

Mercury -98481-01-03 16:18 J -34248759.94 -34248759.82 -34248759.70 0.2696 0.1343

Mercury -98478-07-12 06:28 J -34247474.36 -34247474.23 -34247474.11 0.2641 0.0207

Mercury -98465-07-14 02:37 J -34242723.49 -34242723.39 -34242723.28 0.2645 0.1407

Mercury -98462-12-29 21:06 J -34241459.73 -34241459.62 -34241459.51 0.2705 0.1597

Mercury -98458-07-07 18:28 J -34240173.81 -34240173.73 -34240173.65 0.2633 0.2039

Mercury -98452-07-16 22:47 J -34237972.57 -34237972.55 -34237972.53 0.2650 0.2601

Mercury -98449-12-31 21:20 J -34236708.74 -34236708.61 -34236708.47 0.2700 0.0084

Mercury -98445-07-09 15:06 J -34235422.99 -34235422.87 -34235422.75 0.2637 0.0786

Mercury -98435-01-03 22:04 J -34231957.69 -34231957.58 -34231957.47 0.2695 0.1675

Mercury -98432-07-12 11:30 J -34230672.14 -34230672.02 -34230671.90 0.2641 0.0455

Mercury -98419-07-15 07:54 J -34225921.27 -34225921.17 -34225921.08 0.2646 0.1665

Mercury -98416-12-30 02:52 J -34224657.50 -34224657.38 -34224657.27 0.2704 0.1276

Mercury -98412-07-07 23:44 J -34223371.60 -34223371.51 -34223371.42 0.2633 0.1774

Mercury -98402-01-02 03:06 J -34219906.50 -34219906.37 -34219906.23 0.2700 0.0355

Mercury -98399-07-10 20:23 J -34218620.77 -34218620.65 -34218620.53 0.2638 0.0520

Mercury -98389-01-05 03:49 J -34215155.43 -34215155.34 -34215155.25 0.2695 0.2020

Mercury -98386-07-13 16:47 J -34213869.92 -34213869.80 -34213869.68 0.2642 0.0710

Mercury -98383-12-28 08:23 J -34212606.20 -34212606.15 -34212606.11 0.2708 0.2542

Mercury -98373-07-15 12:56 J -34209119.04 -34209118.96 -34209118.87 0.2646 0.1919

Mercury -98370-12-31 08:23 J -34207855.27 -34207855.15 -34207855.02 0.2704 0.0952

Mercury -98366-07-09 05:01 J -34206569.40 -34206569.29 -34206569.19 0.2634 0.1505

Mercury -98356-01-02 08:52 J -34203104.26 -34203104.13 -34203104.00 0.2699 0.0685

Venus -98356-01-25 07:54 J -34203081.30 -34203081.17 -34203081.05 0.2656 0.1667

Mercury -98353-07-11 01:25 J -34201818.56 -34201818.44 -34201818.31 0.2638 0.0274

Venus -98348-01-22 23:01 J -34200161.62 -34200161.54 -34200161.46 0.2661 0.2276

Mercury -98343-01-05 09:35 J -34198353.16 -34198353.10 -34198353.03 0.2694 0.2358

Mercury -98340-07-13 22:04 J -34197067.70 -34197067.58 -34197067.47 0.2643 0.0975

Mercury -98337-12-28 14:08 J -34195803.99 -34195803.91 -34195803.84 0.2708 0.2218

Mercury -98333-07-06 13:25 J -34194517.98 -34194517.94 -34194517.91 0.2630 0.2506

Mercury -98327-07-16 18:13 J -34192316.81 -34192316.74 -34192316.67 0.2647 0.2175

Mercury -98324-12-31 14:08 J -34191053.04 -34191052.91 -34191052.78 0.2703 0.0625

Mercury -98320-07-09 10:04 J -34189767.18 -34189767.08 -34189766.97 0.2634 0.1243

Mercury -98310-01-03 14:37 J -34186302.02 -34186301.89 -34186301.77 0.2698 0.1017

Mercury -98307-07-12 06:42 J -34185016.34 -34185016.22 -34185016.09 0.2639 0.0045

Mercury -98294-07-15 03:06 J -34180265.48 -34180265.37 -34180265.26 0.2643 0.1228

Mercury -98291-12-29 19:40 J -34179001.77 -34179001.68 -34179001.58 0.2707 0.1896

Mercury -98287-07-07 18:42 J -34177715.78 -34177715.72 -34177715.66 0.2631 0.2236

Mercury -98281-07-16 23:16 J -34175514.57 -34175514.53 -34175514.48 0.2648 0.2431

Mercury -98277-01-01 19:54 J -34174250.80 -34174250.67 -34174250.54 0.2703 0.0289

Venus -98275-08-04 19:54 J -34173304.83 -34173304.67 -34173304.52 0.2681 0.0374

Mercury -98274-07-10 15:20 J -34172964.97 -34172964.86 -34172964.74 0.2635 0.0975

Mercury -98264-01-03 20:23 J -34169499.77 -34169499.65 -34169499.53 0.2698 0.1355

Mercury -98261-07-12 11:59 J -34168214.12 -34168214.00 -34168213.88 0.2639 0.0269

Mercury -98248-07-15 08:23 J -34163463.25 -34163463.15 -34163463.05 0.2644 0.1491

Mercury -98245-12-30 01:25 J -34162199.55 -34162199.44 -34162199.34 0.2707 0.1576

Mercury -98241-07-07 23:59 J -34160913.58 -34160913.50 -34160913.42 0.2631 0.1968

Mercury -98231-01-02 01:40 J -34157448.57 -34157448.43 -34157448.30 0.2702 0.0066

Mercury -98228-07-10 20:37 J -34156162.76 -34156162.64 -34156162.52 0.2635 0.0707

Mercury -98218-01-05 02:08 J -34152697.51 -34152697.41 -34152697.30 0.2697 0.1699

Mercury -98215-07-13 17:16 J -34151411.91 -34151411.78 -34151411.66 0.2640 0.0539

Mercury -98202-07-16 13:25 J -34146661.03 -34146660.94 -34146660.85 0.2644 0.1747

Mercury -98199-12-31 06:56 J -34145397.33 -34145397.21 -34145397.09 0.2706 0.1256

Mercury -98195-07-09 05:16 J -34144111.38 -34144111.28 -34144111.19 0.2632 0.1700

Mercury -98185-01-03 07:25 J -34140646.33 -34140646.19 -34140646.06 0.2701 0.0384

Mercury -98182-07-12 01:54 J -34139360.54 -34139360.42 -34139360.30 0.2636 0.0443

Mercury -98172-01-05 07:54 J -34135895.26 -34135895.17 -34135895.08 0.2696 0.2036

Mercury -98169-07-13 22:18 J -34134609.68 -34134609.57 -34134609.45 0.2640 0.0793

Mercury -98166-12-29 12:42 J -34133346.02 -34133345.97 -34133345.93 0.2710 0.2514

Mercury -98156-07-16 18:42 J -34129858.80 -34129858.72 -34129858.64 0.2645 0.2008

Mercury -98153-12-31 12:42 J -34128595.10 -34128594.97 -34128594.85 0.2705 0.0930

Mercury -98149-07-09 10:32 J -34127309.17 -34127309.06 -34127308.96 0.2632 0.1438

Mercury -98139-01-03 12:56 J -34123844.09 -34123843.96 -34123843.83 0.2701 0.0701

Mercury -98136-07-12 07:11 J -34122558.33 -34122558.20 -34122558.08 0.2637 0.0198

Mercury -98126-01-06 13:40 J -34119092.99 -34119092.93 -34119092.87 0.2696 0.2377

Mercury -98123-07-15 03:35 J -34117807.46 -34117807.35 -34117807.24 0.2641 0.1055

Mercury -98120-12-29 18:13 J -34116543.81 -34116543.74 -34116543.66 0.2709 0.2197

Mercury -98116-07-07 18:56 J -34115257.76 -34115257.71 -34115257.67 0.2629 0.2438

Venus -98113-01-26 08:37 J -34114325.27 -34114325.14 -34114325.02 0.2660 0.1602

Mercury -98110-07-17 23:59 J -34113056.57 -34113056.50 -34113056.44 0.2645 0.2264

Mercury -98106-01-01 18:28 J -34111792.86 -34111792.73 -34111792.60 0.2705 0.0606

Venus -98105-01-23 23:30 J -34111405.59 -34111405.52 -34111405.45 0.2664 0.2386

Mercury -98103-07-10 15:35 J -34110506.96 -34110506.85 -34110506.73 0.2633 0.1170

Mercury -98093-01-04 18:42 J -34107041.84 -34107041.72 -34107041.59 0.2700 0.1038

Mercury -98090-07-13 12:13 J -34105756.11 -34105755.99 -34105755.86 0.2637 0.0091

Mercury -98077-07-15 08:52 J -34101005.24 -34101005.13 -34101005.03 0.2642 0.1315

Mercury -98074-12-30 23:59 J -34099741.60 -34099741.50 -34099741.41 0.2709 0.1881

Mercury -98070-07-09 00:13 J -34098455.56 -34098455.49 -34098455.42 0.2629 0.2168

Mercury -98064-07-18 05:01 J -34096254.32 -34096254.29 -34096254.26 0.2646 0.2521

Mercury -98060-01-01 23:59 J -34094990.63 -34094990.50 -34094990.37 0.2704 0.0276

Mercury -98057-07-10 20:52 J -34093704.74 -34093704.63 -34093704.51 0.2634 0.0901

Mercury -98047-01-05 00:28 J -34090239.60 -34090239.48 -34090239.36 0.2699 0.1373

Mercury -98044-07-13 17:30 J -34088953.89 -34088953.77 -34088953.65 0.2638 0.0347

Venus -98032-08-04 21:06 J -34084548.78 -34084548.62 -34084548.47 0.2678 0.0333

Mercury -98031-07-16 13:54 J -34084203.02 -34084202.92 -34084202.82 0.2642 0.1570

Mercury -98028-12-31 05:30 J -34082939.38 -34082939.27 -34082939.16 0.2708 0.1559

Mercury -98024-07-09 05:30 J -34081653.36 -34081653.27 -34081653.19 0.2630 0.1899

Mercury -98014-01-03 05:44 J -34078188.40 -34078188.26 -34078188.13 0.2703 0.0057

Mercury -98011-07-12 02:08 J -34076902.53 -34076902.41 -34076902.29 0.2634 0.0633

Mercury -98001-01-06 06:13 J -34073437.35 -34073437.24 -34073437.14 0.2699 0.1710

98TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 98th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-97998-07-14 22:47 J	-34072151.67	-34072151.55	-34072151.43	0.2638	0.0612		
Mercury	-97985-07-16 19:11 J	-34067400.79	-34067400.70	-34067400.61	0.2643	0.1834		
Mercury	-97981-01-01 11:15 J	-34066137.15	-34066137.03	-34066136.91	0.2708	0.1232		
Mercury	-97978-07-10 10:32 J	-34064851.15	-34064851.06	-34064850.96	0.2630	0.1634		
Mercury	-97968-01-03 11:30 J	-34061386.16	-34061386.02	-34061385.89	0.2703	0.0391		
Mercury	-97965-07-12 07:25 J	-34060100.31	-34060100.19	-34060100.07	0.2635	0.0369		
Mercury	-97955-01-06 11:59 J	-34056635.09	-34056635.00	-34056634.92	0.2698	0.2048		
Mercury	-97952-07-15 04:03 J	-34055349.45	-34055349.33	-34055349.22	0.2639	0.0881		
Mercury	-97949-12-29 17:01 J	-34054085.84	-34054085.79	-34054085.74	0.2712	0.2491		
Mercury	-97939-07-18 00:13 J	-34050598.56	-34050598.49	-34050598.41	0.2643	0.2094		
Mercury	-97935-01-01 17:01 J	-34049334.92	-34049334.79	-34049334.67	0.2707	0.0909		
Mercury	-97932-07-10 15:49 J	-34048048.94	-34048048.84	-34048048.73	0.2631	0.1364		
Mercury	-97922-01-04 17:15 J	-34044583.91	-34044583.78	-34044583.65	0.2702	0.0728		

Mercury -97919-07-13 12:42 J -34043298.10 -34043297.97 -34043297.85 0.2635 0.0126

Mercury -97909-01-07 17:44 J -34039832.82 -34039832.76 -34039832.70 0.2697 0.2390

Mercury -97906-07-16 09:06 J -34038547.23 -34038547.12 -34038547.01 0.2640 0.1136

Mercury -97903-12-30 22:32 J -34037283.63 -34037283.56 -34037283.48 0.2711 0.2179

Mercury -97899-07-09 00:13 J -34035997.54 -34035997.49 -34035997.44 0.2627 0.2373

Mercury -97893-07-18 05:30 J -34033796.32 -34033796.27 -34033796.22 0.2644 0.2353

Mercury -97889-01-02 22:32 J -34032532.69 -34032532.56 -34032532.43 0.2706 0.0582

Mercury -97886-07-11 21:06 J -34031246.73 -34031246.62 -34031246.50 0.2631 0.1093

Mercury -97876-01-04 22:47 J -34027781.67 -34027781.55 -34027781.42 0.2702 0.1059

Mercury -97873-07-13 17:59 J -34026495.88 -34026495.75 -34026495.63 0.2636 0.0192

Venus -97870-01-26 09:06 J -34025569.25 -34025569.12 -34025568.99 0.2663 0.1516

Venus -97862-01-23 23:59 J -34022649.55 -34022649.50 -34022649.44 0.2668 0.2488

Mercury -97860-07-16 14:23 J -34021745.00 -34021744.90 -34021744.80 0.2640 0.1398

Mercury -97857-12-31 04:18 J -34020481.42 -34020481.32 -34020481.23 0.2710 0.1860

Mercury -97853-07-09 05:30 J -34019195.34 -34019195.27 -34019195.19 0.2628 0.2103

Mercury -97847-07-19 10:47 J -34016994.07 -34016994.05 -34016994.04 0.2644 0.2608

Mercury -97843-01-03 04:18 J -34015730.46 -34015730.32 -34015730.19 0.2706 0.0263

Mercury -97840-07-12 02:23 J -34014444.52 -34014444.40 -34014444.28 0.2632 0.0826

Mercury -97830-01-06 04:32 J -34010979.42 -34010979.31 -34010979.19 0.2701 0.1390

Mercury -97827-07-14 23:01 J -34009693.66 -34009693.54 -34009693.42 0.2636 0.0432

Mercury -97814-07-17 19:39 J -34004942.78 -34004942.68 -34004942.59 0.2641 0.1662

Mercury -97810-01-01 09:49 J -34003679.20 -34003679.09 -34003678.98 0.2710 0.1538

Mercury -97807-07-10 10:47 J -34002393.14 -34002393.05 -34002392.96 0.2628 0.1833

Mercury -97797-01-04 09:49 J -33998928.22 -33998928.09 -33998927.95 0.2705 0.0090

Mercury -97794-07-13 07:39 J -33997642.30 -33997642.18 -33997642.06 0.2633 0.0560

Venus -97789-08-04 22:18 J -33995792.73 -33995792.57 -33995792.41 0.2674 0.0293

Mercury -97784-01-06 10:18 J -33994177.18 -33994177.07 -33994176.97 0.2700 0.1725

Mercury -97781-07-15 04:18 J -33992891.44 -33992891.32 -33992891.20 0.2637 0.0692

Mercury -97768-07-18 00:42 J -33988140.55 -33988140.47 -33988140.39 0.2641 0.1920

Mercury -97764-01-01 15:35 J -33986876.97 -33986876.85 -33986876.74 0.2709 0.1217

Mercury -97761-07-10 16:03 J -33985590.93 -33985590.83 -33985590.73 0.2629 0.1560

Mercury -97751-01-04 15:35 J -33982125.98 -33982125.85 -33982125.72 0.2704 0.0404

Mercury -97748-07-13 12:56 J -33980840.09 -33980839.96 -33980839.84 0.2633 0.0295

Mercury -97738-01-07 16:03 J -33977374.92 -33977374.83 -33977374.75 0.2700 0.2066

Mercury -97735-07-16 09:35 J -33976089.22 -33976089.10 -33976088.99 0.2637 0.0956

Mercury -97732-12-30 21:20 J -33974825.66 -33974825.61 -33974825.56 0.2713 0.2474

Mercury -97728-07-09 00:27 J -33973539.50 -33973539.48 -33973539.46 0.2625 0.2578

Mercury -97722-07-19 05:59 J -33971338.32 -33971338.25 -33971338.18 0.2642 0.2178

Mercury -97718-01-02 21:06 J -33970074.74 -33970074.62 -33970074.49 0.2709 0.0893

Mercury -97715-07-11 21:20 J -33968788.72 -33968788.61 -33968788.50 0.2630 0.1288

Mercury -97705-01-05 21:20 J -33965323.74 -33965323.61 -33965323.48 0.2704 0.0740

Mercury -97702-07-14 18:13 J -33964037.87 -33964037.74 -33964037.62 0.2634 0.0051

Mercury -97692-01-07 21:49 J -33960572.65 -33960572.59 -33960572.54 0.2699 0.2406

Mercury -97689-07-16 14:37 J -33959286.99 -33959286.89 -33959286.78 0.2638 0.1222

Mercury -97685-01-01 02:51 J -33958023.46 -33958023.38 -33958023.30 0.2713 0.2155

Mercury -97682-07-10 05:44 J -33956737.32 -33956737.26 -33956737.20 0.2626 0.2303

Mercury -97676-07-19 11:01 J -33954536.08 -33954536.04 -33954535.99 0.2642 0.2437

Mercury -97672-01-03 02:51 J -33953272.51 -33953272.38 -33953272.25 0.2708 0.0565

Mercury -97669-07-12 02:37 J -33951986.50 -33951986.39 -33951986.27 0.2630 0.1019

Mercury -97659-01-06 02:51 J -33948521.50 -33948521.38 -33948521.25 0.2703 0.1072

Mercury -97656-07-14 23:30 J -33947235.65 -33947235.52 -33947235.40 0.2634 0.0261

Mercury -97643-07-17 19:54 J -33942484.77 -33942484.67 -33942484.57 0.2639 0.1485

Mercury -97639-01-01 08:37 J -33941221.24 -33941221.14 -33941221.05 0.2712 0.1836

Mercury -97636-07-10 11:01 J -33939935.12 -33939935.04 -33939934.96 0.2627 0.2032

Venus -97627-01-26 09:20 J -33936813.24 -33936813.11 -33936812.97 0.2666 0.1393

Mercury -97626-01-04 08:23 J -33936470.28 -33936470.15 -33936470.01 0.2707 0.0244

Mercury -97623-07-13 07:54 J -33935184.29 -33935184.17 -33935184.05 0.2631 0.0749

Venus -97619-01-24 00:13 J -33933893.50 -33933893.49 -33933893.47 0.2671 0.2648

Mercury -97613-01-07 08:37 J -33931719.25 -33931719.14 -33931719.02 0.2703 0.1409

Mercury -97610-07-16 04:32 J -33930433.43 -33930433.31 -33930433.18 0.2635 0.0516

Mercury -97597-07-18 01:11 J -33925682.54 -33925682.45 -33925682.36 0.2639 0.1747

Mercury -97593-01-02 14:08 J -33924419.02 -33924418.91 -33924418.80 0.2711 0.1515

Mercury -97590-07-11 16:18 J -33923132.91 -33923132.82 -33923132.73 0.2627 0.1756

Mercury -97580-01-04 14:08 J -33919668.04 -33919667.91 -33919667.78 0.2707 0.0094

Mercury -97577-07-13 13:11 J -33918382.07 -33918381.95 -33918381.83 0.2631 0.0481

Mercury -97567-01-07 14:23 J -33914917.00 -33914916.90 -33914916.80 0.2702 0.1745

Mercury -97564-07-16 09:49 J -33913631.21 -33913631.09 -33913630.97 0.2635 0.0775

Mercury -97551-07-19 06:13 J -33908880.31 -33908880.24 -33908880.16 0.2640 0.2007

Mercury -97547-01-02 19:39 J -33907616.79 -33907616.68 -33907616.56 0.2711 0.1201

Venus -97546-08-05 23:59 J -33907036.66 -33907036.50 -33907036.34 0.2671 0.0291

Mercury -97544-07-11 21:35 J -33906330.70 -33906330.60 -33906330.50 0.2628 0.1488

Mercury -97534-01-05 19:39 J -33902865.81 -33902865.68 -33902865.54 0.2706 0.0432

Mercury -97531-07-14 18:27 J -33901579.86 -33901579.73 -33901579.61 0.2632 0.0210

Mercury -97521-01-08 20:08 J -33898114.75 -33898114.66 -33898114.58 0.2701 0.2082

Mercury -97518-07-17 15:06 J -33896828.99 -33896828.87 -33896828.76 0.2636 0.1041

Mercury -97514-01-01 01:39 J -33895565.48 -33895565.43 -33895565.38 0.2715 0.2456

Mercury -97511-07-10 05:44 J -33894279.29 -33894279.26 -33894279.22 0.2624 0.2511

Mercury -97505-07-19 11:30 J -33892078.08 -33892078.02 -33892077.96 0.2640 0.2266

Mercury -97501-01-04 01:25 J -33890814.57 -33890814.44 -33890814.32 0.2710 0.0871

Mercury -97498-07-13 02:51 J -33889528.49 -33889528.38 -33889528.27 0.2628 0.1216

Mercury -97488-01-06 01:25 J -33886063.57 -33886063.44 -33886063.31 0.2705 0.0752

Mercury -97485-07-14 23:44 J -33884777.64 -33884777.51 -33884777.39 0.2632 0.0101

Mercury -97475-01-09 01:54 J -33881312.48 -33881312.42 -33881312.37 0.2701 0.2421

Mercury -97472-07-17 20:23 J -33880026.76 -33880026.65 -33880026.55 0.2637 0.1308

Mercury -97468-01-01 07:11 J -33878763.28 -33878763.20 -33878763.12 0.2714 0.2137

Mercury -97465-07-10 11:01 J -33877477.10 -33877477.04 -33877476.97 0.2625 0.2238

Mercury -97459-07-20 16:47 J -33875275.83 -33875275.80 -33875275.77 0.2641 0.2529

Mercury -97455-01-04 06:56 J -33874012.34 -33874012.21 -33874012.08 0.2709 0.0553

Mercury -97452-07-13 08:08 J -33872726.28 -33872726.16 -33872726.04 0.2629 0.0945

Mercury -97442-01-07 07:11 J -33869261.33 -33869261.20 -33869261.08 0.2705 0.1088

Mercury -97439-07-16 04:47 J -33867975.42 -33867975.30 -33867975.17 0.2633 0.0335

Mercury -97426-07-19 01:25 J -33863224.54 -33863224.44 -33863224.34 0.2637 0.1566

Mercury -97422-01-02 12:56 J -33861961.06 -33861960.96 -33861960.87 0.2714 0.1819

Mercury -97419-07-11 16:32 J -33860674.90 -33860674.81 -33860674.73 0.2625 0.1957

Mercury -97409-01-05 12:42 J -33857210.10 -33857209.97 -33857209.84 0.2709 0.0219

Mercury -97406-07-14 13:25 J -33855924.06 -33855923.94 -33855923.82 0.2629 0.0673

Mercury -97396-01-07 12:42 J -33852459.08 -33852458.97 -33852458.85 0.2704 0.1422

Mercury -97393-07-16 10:03 J -33851173.20 -33851173.08 -33851172.96 0.2633 0.0591

Venus -97384-01-26 09:49 J -33848057.23 -33848057.09 -33848056.95 0.2670 0.1266

Mercury -97380-07-19 06:42 J -33846422.31 -33846422.22 -33846422.13 0.2638 0.1829

Mercury -97376-01-02 18:27 J -33845158.84 -33845158.73 -33845158.62 0.2713 0.1496

Mercury -97373-07-11 21:49 J -33843872.69 -33843872.59 -33843872.50 0.2626 0.1688

Mercury -97363-01-05 18:13 J -33840407.87 -33840407.74 -33840407.60 0.2708 0.0145

Mercury -97360-07-14 18:42 J -33839121.85 -33839121.72 -33839121.60 0.2630 0.0400

Mercury -97350-01-08 18:27 J -33835656.83 -33835656.73 -33835656.63 0.2704 0.1758

Mercury -97347-07-17 15:20 J -33834370.98 -33834370.86 -33834370.74 0.2634 0.0859

Mercury -97334-07-20 11:59 J -33829620.08 -33829620.00 -33829619.93 0.2638 0.2094

Mercury -97330-01-03 23:59 J -33828356.61 -33828356.50 -33828356.38 0.2712 0.1176

Mercury -97327-07-13 03:06 J -33827070.48 -33827070.37 -33827070.27 0.2626 0.1412

Mercury -97317-01-06 23:59 J -33823605.63 -33823605.50 -33823605.37 0.2708 0.0443

Mercury -97314-07-15 23:59 J -33822319.63 -33822319.50 -33822319.38 0.2630 0.0158

Mercury -97304-01-09 00:13 J -33818854.57 -33818854.49 -33818854.41 0.2703 0.2094

Venus -97303-08-06 01:11 J -33818280.60 -33818280.45 -33818280.29 0.2668 0.0275

Mercury -97301-07-17 20:37 J -33817568.75 -33817568.64 -33817568.53 0.2635 0.1125

Mercury -97297-01-02 05:59 J -33816305.30 -33816305.25 -33816305.19 0.2716 0.2429

Mercury -97294-07-11 11:15 J -33815019.08 -33815019.03 -33815018.99 0.2623 0.2441

Mercury -97288-07-20 17:01 J -33812817.84 -33812817.79 -33812817.73 0.2639 0.2361

Mercury -97284-01-04 05:44 J -33811554.39 -33811554.26 -33811554.14 0.2712 0.0854

Mercury -97281-07-13 08:23 J -33810268.27 -33810268.15 -33810268.04 0.2627 0.1144

Mercury -97271-01-07 05:44 J -33806803.39 -33806803.26 -33806803.14 0.2707 0.0774

Mercury -97268-07-16 05:01 J -33805517.41 -33805517.29 -33805517.16 0.2631 0.0168

Mercury -97258-01-10 05:59 J -33802052.31 -33802052.25 -33802052.20 0.2702 0.2438

Mercury -97255-07-19 01:54 J -33800766.53 -33800766.42 -33800766.32 0.2635 0.1391

Mercury -97251-01-02 11:44 J -33799503.09 -33799503.01 -33799502.93 0.2716 0.2117

Mercury -97248-07-11 16:32 J -33798216.88 -33798216.81 -33798216.74 0.2623 0.2163

Mercury -97242-07-21 22:18 J -33796015.58 -33796015.57 -33796015.56 0.2639 0.2619

Mercury -97238-01-05 11:15 J -33794752.16 -33794752.03 -33794751.90 0.2711 0.0529

Mercury -97235-07-14 13:25 J -33793466.05 -33793465.94 -33793465.82 0.2627 0.0872

Mercury -97225-01-08 11:15 J -33790001.15 -33790001.03 -33790000.91 0.2706 0.1106

Mercury -97222-07-17 10:18 J -33788715.19 -33788715.07 -33788714.94 0.2631 0.0409

Mercury -97209-07-19 06:56 J -33783964.30 -33783964.21 -33783964.11 0.2636 0.1658

Mercury -97205-01-03 17:15 J -33782700.88 -33782700.78 -33782700.68 0.2715 0.1796

Mercury -97202-07-12 21:49 J -33781414.68 -33781414.59 -33781414.50 0.2624 0.1889

Mercury -97192-01-05 17:01 J -33777949.92 -33777949.79 -33777949.66 0.2710 0.0207

Mercury -97189-07-14 18:42 J -33776663.84 -33776663.72 -33776663.59 0.2628 0.0604

Mercury -97179-01-08 17:01 J -33773198.90 -33773198.79 -33773198.68 0.2706 0.1439

Mercury -97176-07-17 15:35 J -33771912.97 -33771912.85 -33771912.73 0.2632 0.0678

Mercury -97163-07-20 12:13 J -33767162.07 -33767161.99 -33767161.91 0.2636 0.1919

Mercury -97159-01-03 22:47 J -33765898.66 -33765898.55 -33765898.44 0.2714 0.1480

Mercury -97156-07-13 03:06 J -33764612.47 -33764612.37 -33764612.27 0.2624 0.1612

Mercury -97146-01-06 22:32 J -33761147.69 -33761147.56 -33761147.43 0.2710 0.0134

Mercury -97143-07-15 23:59 J -33759861.62 -33759861.50 -33759861.37 0.2628 0.0332

Venus -97141-01-27 09:49 J -33759301.23 -33759301.09 -33759300.94 0.2673 0.1120

Mercury -97133-01-09 22:32 J -33756396.66 -33756396.56 -33756396.46 0.2705 0.1774

Mercury -97130-07-18 20:51 J -33755110.75 -33755110.63 -33755110.51 0.2633 0.0940

Mercury -97117-07-20 17:30 J -33750359.84 -33750359.77 -33750359.70 0.2637 0.2185

Mercury -97113-01-05 04:18 J -33749096.43 -33749096.32 -33749096.20 0.2714 0.1160

Mercury -97110-07-14 08:23 J -33747810.26 -33747810.15 -33747810.04 0.2625 0.1340

Mercury -97100-01-07 04:18 J -33744345.46 -33744345.32 -33744345.19 0.2709 0.0460

Mercury -97097-07-16 05:15 J -33743059.40 -33743059.28 -33743059.15 0.2629 0.0091

Mercury -97087-01-10 04:18 J -33739594.40 -33739594.32 -33739594.24 0.2704 0.2110

Mercury -97084-07-19 02:08 J -33738308.52 -33738308.41 -33738308.30 0.2633 0.1211

Mercury -97080-01-02 10:32 J -33737045.12 -33737045.06 -33737045.00 0.2718 0.2406

Mercury -97077-07-11 16:32 J -33735758.86 -33735758.81 -33735758.76 0.2621 0.2369

Mercury -97071-07-21 22:47 J -33733557.60 -33733557.55 -33733557.51 0.2637 0.2447

Mercury -97067-01-05 10:03 J -33732294.21 -33732294.08 -33732293.96 0.2713 0.0830

Mercury -97064-07-14 13:39 J -33731008.04 -33731007.93 -33731007.81 0.2625 0.1062

Venus -97060-08-06 03:06 J -33729524.53 -33729524.37 -33729524.21 0.2664 0.0293

Mercury -97054-01-08 09:49 J -33727543.21 -33727543.09 -33727542.96 0.2709 0.0790

Mercury -97051-07-17 10:32 J -33726257.18 -33726257.06 -33726256.93 0.2630 0.0228

Mercury -97041-01-11 10:03 J -33722792.14 -33722792.08 -33722792.03 0.2704 0.2445

Mercury -97038-07-20 07:25 J -33721506.30 -33721506.19 -33721506.09 0.2634 0.1479

Mercury -97034-01-03 16:03 J -33720242.91 -33720242.83 -33720242.75 0.2717 0.2090

Mercury -97031-07-12 21:49 J -33718956.66 -33718956.59 -33718956.51 0.2622 0.2091

Mercury -97021-01-06 15:35 J -33715491.98 -33715491.85 -33715491.72 0.2713 0.0509

Mercury -97018-07-15 18:56 J -33714205.83 -33714205.71 -33714205.59 0.2626 0.0791

Mercury -97008-01-08 15:35 J -33710740.97 -33710740.85 -33710740.73 0.2708 0.1124

Mercury -97005-07-17 15:49 J -33709454.96 -33709454.84 -33709454.71 0.2630 0.0499

97TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 97th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-96992-07-20 12:42 J	-33704704.07	-33704703.97	-33704703.88	0.2634	0.1748		

Mercury -96988-01-03 21:35 J -33703440.70 -33703440.60 -33703440.50 0.2716 0.1777

Mercury -96985-07-13 03:06 J -33702154.46 -33702154.37 -33702154.28 0.2622 0.1817

Mercury -96975-01-06 21:20 J -33698689.74 -33698689.61 -33698689.48 0.2712 0.0189

Mercury -96972-07-16 00:13 J -33697403.61 -33697403.49 -33697403.36 0.2626 0.0514

Mercury -96962-01-09 21:20 J -33693938.73 -33693938.61 -33693938.50 0.2707 0.1462

Mercury -96959-07-18 21:06 J -33692652.74 -33692652.62 -33692652.50 0.2631 0.0761

Mercury -96946-07-21 17:44 J -33687901.83 -33687901.76 -33687901.68 0.2635 0.2015

Mercury -96942-01-05 03:06 J -33686638.48 -33686638.37 -33686638.26 0.2716 0.1456

Mercury -96939-07-14 08:23 J -33685352.25 -33685352.15 -33685352.04 0.2623 0.1542

Mercury -96929-01-08 02:51 J -33681887.51 -33681887.38 -33681887.25 0.2711 0.0144

Mercury -96926-07-17 05:30 J -33680601.39 -33680601.27 -33680601.14 0.2627 0.0246

Mercury -96916-01-10 02:51 J -33677136.48 -33677136.38 -33677136.28 0.2707 0.1791

Mercury -96913-07-19 02:23 J -33675850.51 -33675850.40 -33675850.28 0.2631 0.1033

Mercury -96909-01-03 09:20 J -33674587.12 -33674587.11 -33674587.10 0.2720 0.2698

Mercury -96906-07-12 16:32 J -33673300.83 -33673300.81 -33673300.79 0.2620 0.2578

Mercury -96900-07-21 23:01 J -33671099.60 -33671099.54 -33671099.48 0.2635 0.2277

Venus -96898-01-27 10:03 J -33670545.23 -33670545.08 -33670544.93 0.2677 0.0949

Mercury -96896-01-05 08:51 J -33669836.25 -33669836.13 -33669836.01 0.2715 0.1135

Mercury -96893-07-14 13:54 J -33668550.03 -33668549.92 -33668549.81 0.2624 0.1263

Mercury -96883-01-08 08:37 J -33665085.27 -33665085.14 -33665085.01 0.2711 0.0486

Mercury -96880-07-17 10:47 J -33663799.17 -33663799.05 -33663798.92 0.2628 0.0040

Mercury -96870-01-11 08:37 J -33660334.22 -33660334.14 -33660334.06 0.2706 0.2129

Mercury -96867-07-20 07:39 J -33659048.29 -33659048.18 -33659048.07 0.2632 0.1298

Mercury -96863-01-03 14:51 J -33657784.94 -33657784.88 -33657784.82 0.2719 0.2389

Mercury -96860-07-12 21:49 J -33656498.65 -33656498.59 -33656498.53 0.2620 0.2299

Mercury -96854-07-23 04:18 J -33654297.35 -33654297.32 -33654297.29 0.2636 0.2544

Mercury -96850-01-06 14:23 J -33653034.03 -33653033.90 -33653033.78 0.2715 0.0811

Mercury -96847-07-15 19:11 J -33651747.82 -33651747.70 -33651747.59 0.2624 0.0987

Mercury -96837-01-09 14:08 J -33648283.04 -33648282.91 -33648282.78 0.2710 0.0808

Mercury -96834-07-18 16:03 J -33646996.95 -33646996.83 -33646996.70 0.2628 0.0307

Mercury -96824-01-11 14:08 J -33643531.96 -33643531.91 -33643531.85 0.2705 0.2470

Mercury -96821-07-20 12:56 J -33642246.06 -33642245.96 -33642245.86 0.2632 0.1570

Mercury -96817-01-04 20:23 J -33640982.73 -33640982.65 -33640982.56 0.2719 0.2072

Venus -96817-08-06 04:47 J -33640768.46 -33640768.30 -33640768.14 0.2661 0.0314

Mercury -96814-07-14 03:20 J -33639696.44 -33639696.36 -33639696.28 0.2621 0.2019

Mercury -96804-01-06 19:54 J -33636231.80 -33636231.67 -33636231.54 0.2714 0.0492

Mercury -96801-07-16 00:27 J -33634945.60 -33634945.48 -33634945.36 0.2625 0.0707

Mercury -96791-01-09 19:54 J -33631480.79 -33631480.67 -33631480.55 0.2709 0.1143

Mercury -96788-07-18 21:20 J -33630194.73 -33630194.61 -33630194.49 0.2629 0.0577

Mercury -96775-07-21 18:13 J -33625443.83 -33625443.74 -33625443.66 0.2633 0.1837

Mercury -96771-01-05 02:08 J -33624180.51 -33624180.41 -33624180.31 0.2718 0.1748

Mercury -96768-07-14 08:37 J -33622894.24 -33622894.14 -33622894.05 0.2621 0.1739

Mercury -96758-01-08 01:39 J -33619429.56 -33619429.43 -33619429.30 0.2714 0.0169

Mercury -96755-07-17 05:44 J -33618143.39 -33618143.26 -33618143.14 0.2625 0.0433

Mercury -96745-01-11 01:25 J -33614678.55 -33614678.44 -33614678.33 0.2709 0.1470

Mercury -96742-07-20 02:37 J -33613392.51 -33613392.39 -33613392.27 0.2629 0.0850

Mercury -96729-07-21 23:15 J -33608641.60 -33608641.53 -33608641.45 0.2633 0.2108

Mercury -96725-01-06 07:39 J -33607378.29 -33607378.18 -33607378.07 0.2717 0.1428

Mercury -96722-07-15 13:54 J -33606092.02 -33606091.92 -33606091.81 0.2622 0.1457

Mercury -96712-01-08 07:11 J -33602627.33 -33602627.20 -33602627.07 0.2713 0.0183

Mercury -96709-07-17 11:01 J -33601341.17 -33601341.04 -33601340.91 0.2626 0.0157

Mercury -96699-01-11 07:11 J -33597876.30 -33597876.20 -33597876.10 0.2708 0.1814

Mercury -96696-07-20 07:54 J -33596590.28 -33596590.17 -33596590.06 0.2630 0.1120

Mercury -96692-01-03 13:54 J -33595326.94 -33595326.92 -33595326.90 0.2721 0.2675

Mercury -96689-07-12 21:49 J -33594040.62 -33594040.59 -33594040.55 0.2618 0.2506

Mercury -96683-07-23 04:32 J -33591839.36 -33591839.31 -33591839.26 0.2634 0.2372

Mercury -96679-01-06 13:11 J -33590576.07 -33590575.95 -33590575.83 0.2717 0.1110

Mercury -96676-07-15 19:11 J -33589289.81 -33589289.70 -33589289.59 0.2622 0.1180

Mercury -96666-01-09 12:56 J -33585825.09 -33585824.96 -33585824.83 0.2712 0.0505

Mercury -96663-07-18 16:18 J -33584538.95 -33584538.82 -33584538.69 0.2626 0.0119

Venus -96655-01-27 10:03 J -33581789.23 -33581789.08 -33581788.92 0.2680 0.0797

Mercury -96653-01-12 12:42 J -33581074.05 -33581073.97 -33581073.89 0.2708 0.2152

Mercury -96650-07-21 13:11 J -33579788.06 -33579787.95 -33579787.85 0.2630 0.1393

Mercury -96646-01-04 19:25 J -33578524.75 -33578524.69 -33578524.63 0.2721 0.2361

Mercury -96643-07-14 03:20 J -33577238.43 -33577238.36 -33577238.30 0.2619 0.2225

Mercury -96633-01-07 18:42 J -33573773.84 -33573773.72 -33573773.59 0.2716 0.0791

Mercury -96630-07-17 00:27 J -33572487.60 -33572487.48 -33572487.36 0.2623 0.0905

Mercury -96620-01-09 18:27 J -33569022.86 -33569022.73 -33569022.60 0.2712 0.0829

Mercury -96617-07-18 21:35 J -33567736.73 -33567736.60 -33567736.48 0.2627 0.0394

Mercury -96607-01-12 18:27 J -33564271.78 -33564271.73 -33564271.68 0.2707 0.2486

Mercury -96604-07-21 18:27 J -33562985.83 -33562985.73 -33562985.64 0.2631 0.1661

Mercury -96600-01-05 00:56 J -33561722.54 -33561722.46 -33561722.38 0.2720 0.2044

Mercury -96597-07-14 08:37 J -33560436.22 -33560436.14 -33560436.06 0.2619 0.1945

Mercury -96587-01-08 00:27 J -33556971.61 -33556971.48 -33556971.35 0.2716 0.0467

Mercury -96584-07-17 05:44 J -33555685.38 -33555685.26 -33555685.13 0.2623 0.0631

Mercury -96574-01-10 23:59 J -33552220.62 -33552220.50 -33552220.38 0.2711 0.1160

Venus -96574-08-07 06:42 J -33552012.38 -33552012.22 -33552012.06 0.2658 0.0362

Mercury -96571-07-20 02:51 J -33550934.50 -33550934.38 -33550934.26 0.2627 0.0664

Mercury -96558-07-22 23:44 J -33546183.60 -33546183.51 -33546183.43 0.2631 0.1933

Mercury -96554-01-06 06:27 J -33544920.33 -33544920.23 -33544920.13 0.2719 0.1727

Mercury -96551-07-15 13:54 J -33543634.01 -33543633.92 -33543633.82 0.2620 0.1659

Mercury -96541-01-09 05:59 J -33540169.38 -33540169.25 -33540169.12 0.2715 0.0137

Mercury -96538-07-18 11:01 J -33538883.16 -33538883.04 -33538882.91 0.2624 0.0359

Mercury -96528-01-11 05:44 J -33535418.37 -33535418.26 -33535418.15 0.2710 0.1496

Mercury -96525-07-20 08:08 J -33534132.28 -33534132.16 -33534132.04 0.2628 0.0936

Mercury -96512-07-23 04:47 J -33529381.36 -33529381.30 -33529381.23 0.2632 0.2196

Mercury -96508-01-06 11:59 J -33528118.11 -33528118.00 -33528117.89 0.2719 0.1413

Mercury -96505-07-15 19:11 J -33526831.80 -33526831.70 -33526831.59 0.2621 0.1381

Mercury -96495-01-09 11:30 J -33523367.15 -33523367.02 -33523366.89 0.2714 0.0197

Mercury -96492-07-18 16:32 J -33522080.94 -33522080.81 -33522080.69 0.2625 0.0108

Mercury -96482-01-12 11:15 J -33518616.12 -33518616.03 -33518615.93 0.2710 0.1830

Mercury -96479-07-21 13:25 J -33517330.05 -33517329.94 -33517329.83 0.2629 0.1211

Mercury -96475-01-04 18:27 J -33516066.76 -33516066.73 -33516066.71 0.2723 0.2647

Mercury -96472-07-14 03:20 J -33514780.41 -33514780.36 -33514780.32 0.2617 0.2430

Mercury -96466-07-24 10:03 J -33512579.12 -33512579.08 -33512579.04 0.2633 0.2465

Mercury -96462-01-07 17:44 J -33511315.88 -33511315.76 -33511315.64 0.2718 0.1088

Mercury -96459-07-17 00:42 J -33510029.59 -33510029.47 -33510029.36 0.2621 0.1101

Mercury -96449-01-10 17:15 J -33506564.91 -33506564.78 -33506564.65 0.2714 0.0521

Mercury -96446-07-19 21:49 J -33505278.72 -33505278.59 -33505278.47 0.2625 0.0220

Mercury -96436-01-12 17:01 J -33501813.87 -33501813.79 -33501813.71 0.2709 0.2163

Mercury -96433-07-21 18:42 J -33500527.83 -33500527.72 -33500527.62 0.2629 0.1483

Mercury -96429-01-05 23:59 J -33499264.57 -33499264.50 -33499264.44 0.2722 0.2331

Mercury -96426-07-15 08:37 J -33497978.21 -33497978.14 -33497978.07 0.2618 0.2147

Mercury -96416-01-07 23:15 J -33494513.66 -33494513.53 -33494513.40 0.2718 0.0761

Mercury -96413-07-17 05:59 J -33493227.37 -33493227.25 -33493227.13 0.2621 0.0824

Venus -96412-01-27 10:03 J -33493033.23 -33493033.08 -33493032.92 0.2683 0.0590

Mercury -96403-01-10 22:47 J -33489762.67 -33489762.55 -33489762.42 0.2713 0.0849

Mercury -96400-07-20 03:06 J -33488476.50 -33488476.37 -33488476.25 0.2626 0.0483

Mercury -96390-01-13 22:32 J -33485011.60 -33485011.56 -33485011.51 0.2709 0.2501

Mercury -96387-07-22 23:59 J -33483725.59 -33483725.50 -33483725.41 0.2630 0.1755

Mercury -96383-01-06 05:30 J -33482462.36 -33482462.27 -33482462.19 0.2721 0.2018

Mercury -96380-07-15 13:54 J -33481176.01 -33481175.92 -33481175.83 0.2618 0.1862

Mercury -96370-01-09 04:47 J -33477711.43 -33477711.30 -33477711.17 0.2717 0.0439

Mercury -96367-07-18 11:15 J -33476425.16 -33476425.03 -33476424.91 0.2622 0.0541

Mercury -96357-01-12 04:32 J -33472960.43 -33472960.31 -33472960.20 0.2712 0.1187

Mercury -96354-07-21 08:23 J -33471674.27 -33471674.15 -33471674.03 0.2626 0.0757

Mercury -96341-07-23 05:15 J -33466923.36 -33466923.28 -33466923.21 0.2630 0.2024

Mercury -96337-01-07 11:01 J -33465660.14 -33465660.04 -33465659.94 0.2721 0.1704

Mercury -96334-07-16 19:11 J -33464373.80 -33464373.70 -33464373.59 0.2619 0.1586

Venus -96331-08-07 08:37 J -33463256.29 -33463256.14 -33463255.98 0.2655 0.0421

Mercury -96324-01-09 10:18 J -33460909.20 -33460909.07 -33460908.94 0.2716 0.0130

Mercury -96321-07-18 16:32 J -33459622.94 -33459622.81 -33459622.68 0.2623 0.0263

Mercury -96311-01-12 10:03 J -33456158.19 -33456158.08 -33456157.97 0.2712 0.1516

Mercury -96308-07-21 13:39 J -33454872.05 -33454871.93 -33454871.82 0.2627 0.1032

Mercury -96295-07-24 10:18 J -33450121.12 -33450121.07 -33450121.01 0.2631 0.2296

Mercury -96291-01-07 16:32 J -33448857.92 -33448857.81 -33448857.70 0.2720 0.1384

Mercury -96288-07-17 00:42 J -33447571.58 -33447571.47 -33447571.36 0.2619 0.1303

Mercury -96278-01-10 16:03 J -33444106.97 -33444106.83 -33444106.70 0.2716 0.0231

Mercury -96275-07-19 21:49 J -33442820.72 -33442820.59 -33442820.46 0.2623 0.0014

Mercury -96265-01-13 15:35 J -33439355.94 -33439355.85 -33439355.75 0.2711 0.1847

Mercury -96262-07-22 18:56 J -33438069.82 -33438069.71 -33438069.61 0.2627 0.1305

Mercury -96258-01-05 23:01 J -33436806.57 -33436806.54 -33436806.51 0.2724 0.2623

Mercury -96255-07-15 08:37 J -33435520.20 -33435520.14 -33435520.09 0.2616 0.2355

Mercury -96249-07-24 15:35 J -33433318.87 -33433318.85 -33433318.82 0.2631 0.2565

Mercury -96245-01-08 22:03 J -33432055.70 -33432055.58 -33432055.46 0.2720 0.1065

Mercury -96242-07-18 05:59 J -33430769.37 -33430769.25 -33430769.13 0.2620 0.1023

Mercury -96232-01-10 21:35 J -33427304.73 -33427304.60 -33427304.47 0.2715 0.0540

Mercury -96229-07-20 03:06 J -33426018.49 -33426018.37 -33426018.24 0.2624 0.0289

Mercury -96219-01-13 21:20 J -33422553.69 -33422553.61 -33422553.54 0.2711 0.2183

Mercury -96216-07-23 00:13 J -33421267.59 -33421267.49 -33421267.39 0.2628 0.1575

Mercury -96212-01-06 04:32 J -33420004.38 -33420004.31 -33420004.25 0.2723 0.2312

Mercury -96209-07-15 13:54 J -33418717.99 -33418717.92 -33418717.84 0.2617 0.2069

Mercury -96199-01-09 03:35 J -33415253.47 -33415253.35 -33415253.22 0.2719 0.0744

Mercury -96196-07-18 11:15 J -33413967.15 -33413967.03 -33413966.91 0.2620 0.0737

Mercury -96186-01-12 03:06 J -33410502.49 -33410502.37 -33410502.24 0.2715 0.0868

Mercury -96183-07-21 08:23 J -33409216.27 -33409216.15 -33409216.03 0.2624 0.0566

Mercury -96173-01-15 02:51 J -33405751.42 -33405751.38 -33405751.33 0.2710 0.2521

Mercury -96170-07-24 05:15 J -33404465.36 -33404465.28 -33404465.19 0.2628 0.1846

Venus -96169-01-28 10:03 J -33404277.24 -33404277.08 -33404276.92 0.2686 0.0392

Mercury -96166-01-07 10:03 J -33403202.17 -33403202.08 -33403202.00 0.2723 0.1993

Mercury -96163-07-16 19:11 J -33401915.79 -33401915.70 -33401915.60 0.2617 0.1789

Mercury -96153-01-10 09:06 J -33398451.24 -33398451.12 -33398450.99 0.2718 0.0432

Mercury -96150-07-19 16:32 J -33397164.93 -33397164.81 -33397164.68 0.2621 0.0463

Mercury -96140-01-12 08:37 J -33393700.25 -33393700.14 -33393700.02 0.2714 0.1201

Mercury -96137-07-21 13:39 J -33392414.05 -33392413.93 -33392413.81 0.2625 0.0848

Mercury -96124-07-24 10:32 J -33387663.13 -33387663.06 -33387662.98 0.2629 0.2120

Mercury -96120-01-07 15:35 J -33386399.95 -33386399.85 -33386399.75 0.2722 0.1680

Mercury -96117-07-17 00:42 J -33385113.58 -33385113.47 -33385113.37 0.2618 0.1505

Mercury -96107-01-10 14:51 J -33381649.01 -33381648.88 -33381648.75 0.2718 0.0108

Mercury -96104-07-19 21:49 J -33380362.71 -33380362.59 -33380362.46 0.2621 0.0200

Mercury -96094-01-13 14:23 J -33376898.01 -33376897.90 -33376897.79 0.2713 0.1531

Mercury -96091-07-22 18:56 J -33375611.82 -33375611.71 -33375611.59 0.2625 0.1120

Venus -96088-08-07 10:32 J -33374500.21 -33374500.06 -33374499.90 0.2652 0.0478

Mercury -96084-07-15 08:23 J -33373062.17 -33373062.15 -33373062.13 0.2614 0.2566

Mercury -96078-07-25 15:49 J -33370860.88 -33370860.84 -33370860.79 0.2629 0.2394

Mercury -96074-01-08 21:06 J -33369597.73 -33369597.62 -33369597.51 0.2722 0.1359

Mercury -96071-07-18 05:59 J -33368311.36 -33368311.25 -33368311.14 0.2618 0.1222

Mercury -96061-01-11 20:23 J -33364846.78 -33364846.65 -33364846.52 0.2717 0.0232

Mercury -96058-07-21 03:06 J -33363560.49 -33363560.37 -33363560.24 0.2622 0.0140

Mercury -96048-01-13 19:54 J -33360095.76 -33360095.67 -33360095.57 0.2713 0.1869

Mercury -96045-07-23 00:13 J -33358809.59 -33358809.49 -33358809.38 0.2626 0.1396

Mercury -96041-01-07 03:35 J -33357546.39 -33357546.35 -33357546.32 0.2725 0.2599

Mercury -96038-07-16 13:54 J -33356259.98 -33356259.92 -33356259.86 0.2615 0.2284

Mercury -96028-01-09 02:37 J -33352795.51 -33352795.39 -33352795.27 0.2721 0.1041

Mercury -96025-07-18 11:15 J -33351509.15 -33351509.03 -33351508.91 0.2618 0.0936

Mercury -96015-01-12 01:54 J -33348044.55 -33348044.42 -33348044.29 0.2717 0.0563

Mercury -96012-07-21 08:37 J -33346758.27 -33346758.14 -33346758.02 0.2622 0.0386

Mercury -96002-01-15 01:39 J -33343293.51 -33343293.43 -33343293.36 0.2712 0.2204

96TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 96th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-95999-07-24 05:30 J	-33342007.36	-33342007.27	-33342007.17	0.2626	0.1668		
Mercury	-95995-01-07 09:06 J	-33340744.19	-33340744.12	-33340744.06	0.2725	0.2286		
Mercury	-95992-07-16 19:11 J	-33339457.78	-33339457.70	-33339457.62	0.2615	0.1996		
Mercury	-95982-01-10 08:08 J	-33335993.29	-33335993.16	-33335993.04	0.2720	0.0721		
Mercury	-95979-07-19 16:32 J	-33334706.93	-33334706.81	-33334706.68	0.2619	0.0662		
Mercury	-95969-01-13 07:25 J	-33331242.31	-33331242.19	-33331242.06	0.2716	0.0892		
Mercury	-95966-07-22 13:54 J	-33329956.04	-33329955.92	-33329955.80	0.2623	0.0659		
Mercury	-95956-01-15 07:11 J	-33326491.24	-33326491.20	-33326491.16	0.2712	0.2538		
Mercury	-95953-07-24 10:47 J	-33325205.13	-33325205.05	-33325204.96	0.2627	0.1945		
Mercury	-95949-01-08 14:23 J	-33323941.98	-33323941.90	-33323941.81	0.2724	0.1978		
Mercury	-95946-07-18 00:27 J	-33322655.57	-33322655.48	-33322655.38	0.2616	0.1713		
Mercury	-95936-01-10 13:39 J	-33319191.06	-33319190.93	-33319190.80	0.2720	0.0398		
Mercury	-95933-07-19 21:49 J	-33317904.71	-33317904.59	-33317904.46	0.2620	0.0388		
Venus	-95926-01-28 09:35 J	-33315521.26	-33315521.10	-33315520.94	0.2690	0.0140		
Mercury	-95923-01-13 13:11 J	-33314440.07	-33314439.95	-33314439.84	0.2715	0.1220		
Mercury	-95920-07-22 19:11 J	-33313153.82	-33313153.70	-33313153.58	0.2623	0.0933		
Mercury	-95907-07-25 16:03 J	-33308402.89	-33308402.83	-33308402.76	0.2627	0.2215		
Mercury	-95903-01-08 19:54 J	-33307139.77	-33307139.67	-33307139.56	0.2724	0.1659		
Mercury	-95900-07-18 05:59 J	-33305853.36	-33305853.25	-33305853.15	0.2616	0.1426		
Mercury	-95890-01-11 19:11 J	-33302388.83	-33302388.70	-33302388.57	0.2719	0.0080		

Mercury -95887-07-21 03:20 J -33301102.49 -33301102.36 -33301102.24 0.2620 0.0124

Mercury -95877-01-14 18:42 J -33297637.83 -33297637.72 -33297637.61 0.2715 0.1547

Mercury -95874-07-24 00:27 J -33296351.59 -33296351.48 -33296351.37 0.2624 0.1210

Mercury -95867-07-16 13:39 J -33293801.96 -33293801.93 -33293801.89 0.2613 0.2495

Mercury -95861-07-25 21:20 J -33291600.65 -33291600.61 -33291600.57 0.2628 0.2485

Mercury -95857-01-10 01:39 J -33290337.55 -33290337.43 -33290337.32 0.2723 0.1340

Mercury -95854-07-19 11:15 J -33289051.14 -33289051.03 -33289050.91 0.2617 0.1138

Venus -95845-08-07 12:42 J -33285744.12 -33285743.97 -33285743.81 0.2649 0.0554

Mercury -95844-01-12 00:42 J -33285586.60 -33285586.47 -33285586.34 0.2719 0.0261

Mercury -95841-07-21 08:37 J -33284300.27 -33284300.14 -33284300.01 0.2621 0.0190

Mercury -95831-01-15 00:13 J -33280835.58 -33280835.49 -33280835.39 0.2714 0.1882

Mercury -95828-07-24 05:44 J -33279549.36 -33279549.26 -33279549.16 0.2625 0.1485

Mercury -95824-01-07 08:08 J -33278286.20 -33278286.16 -33278286.12 0.2727 0.2572

Mercury -95821-07-16 19:11 J -33276999.77 -33276999.70 -33276999.64 0.2614 0.2204

Mercury -95811-01-10 07:11 J -33273535.32 -33273535.20 -33273535.08 0.2722 0.1017

Mercury -95808-07-19 16:32 J -33272248.93 -33272248.81 -33272248.69 0.2617 0.0858

Mercury -95798-01-13 06:27 J -33268784.36 -33268784.23 -33268784.11 0.2718 0.0585

Mercury -95795-07-22 13:54 J -33267498.04 -33267497.92 -33267497.79 0.2621 0.0469

Mercury -95785-01-16 05:59 J -33264033.33 -33264033.25 -33264033.18 0.2714 0.2220

Mercury -95782-07-25 11:01 J -33262747.13 -33262747.04 -33262746.95 0.2625 0.1766

Mercury -95778-01-08 13:39 J -33261484.00 -33261483.93 -33261483.86 0.2726 0.2263

Mercury -95775-07-18 00:27 J -33260197.57 -33260197.48 -33260197.39 0.2614 0.1919

Mercury -95765-01-11 12:42 J -33256733.10 -33256732.97 -33256732.85 0.2722 0.0701

Mercury -95762-07-20 22:03 J -33255446.71 -33255446.58 -33255446.46 0.2618 0.0576

Mercury -95752-01-13 11:59 J -33251982.12 -33251982.00 -33251981.88 0.2718 0.0913

Mercury -95749-07-22 19:11 J -33250695.82 -33250695.70 -33250695.58 0.2622 0.0749

Mercury -95739-01-16 11:30 J -33247231.06 -33247231.02 -33247230.98 0.2713 0.2553

Mercury -95736-07-25 16:18 J -33245944.90 -33245944.82 -33245944.74 0.2626 0.2036

Mercury -95732-01-08 19:11 J -33244681.79 -33244681.70 -33244681.62 0.2725 0.1948

Mercury -95729-07-18 05:44 J -33243395.36 -33243395.26 -33243395.16 0.2614 0.1632

Mercury -95719-01-11 18:13 J -33239930.87 -33239930.74 -33239930.61 0.2721 0.0379

Mercury -95716-07-21 03:20 J -33238644.49 -33238644.36 -33238644.24 0.2618 0.0296

Mercury -95706-01-14 17:30 J -33235179.89 -33235179.77 -33235179.66 0.2717 0.1235

Mercury -95703-07-24 00:27 J -33233893.59 -33233893.48 -33233893.36 0.2622 0.1028

Mercury -95690-07-26 21:35 J -33229142.66 -33229142.60 -33229142.54 0.2626 0.2311

Mercury -95686-01-10 00:42 J -33227879.58 -33227879.47 -33227879.37 0.2725 0.1634

Venus -95683-01-28 09:20 J -33226765.27 -33226765.11 -33226764.95 0.2693 0.0105

Mercury -95683-07-19 11:15 J -33226593.14 -33226593.03 -33226592.92 0.2615 0.1347

Mercury -95673-01-12 23:44 J -33223128.64 -33223128.51 -33223128.38 0.2721 0.0073

Mercury -95670-07-22 08:37 J -33221842.27 -33221842.14 -33221842.01 0.2619 0.0006

Mercury -95660-01-14 23:01 J -33218377.64 -33218377.54 -33218377.43 0.2716 0.1569

Mercury -95657-07-24 05:44 J -33217091.37 -33217091.26 -33217091.15 0.2623 0.1302

Mercury -95650-07-17 18:56 J -33214541.76 -33214541.71 -33214541.66 0.2612 0.2419

Mercury -95644-07-27 02:51 J -33212340.40 -33212340.38 -33212340.36 0.2627 0.2582

Mercury -95640-01-10 05:59 J -33211077.36 -33211077.25 -33211077.13 0.2724 0.1319

Mercury -95637-07-19 16:32 J -33209790.93 -33209790.81 -33209790.69 0.2616 0.1059

Mercury -95627-01-13 05:15 J -33206326.41 -33206326.28 -33206326.15 0.2720 0.0274

Mercury -95624-07-22 13:54 J -33205040.05 -33205039.92 -33205039.79 0.2619 0.0274

Mercury -95614-01-16 04:32 J -33201575.40 -33201575.31 -33201575.21 0.2716 0.1901

Mercury -95611-07-25 11:01 J -33200289.14 -33200289.04 -33200288.94 0.2623 0.1582

Mercury -95607-01-08 12:42 J -33199026.01 -33199025.97 -33199025.93 0.2728 0.2549

Mercury -95604-07-18 00:13 J -33197739.56 -33197739.49 -33197739.41 0.2612 0.2131

Venus -95602-08-08 14:51 J -33196988.04 -33196987.88 -33196987.73 0.2646 0.0607

Mercury -95594-01-11 11:30 J -33194275.14 -33194275.02 -33194274.90 0.2724 0.1003

Mercury -95591-07-20 21:49 J -33192988.71 -33192988.59 -33192988.46 0.2616 0.0776

Mercury -95581-01-14 10:47 J -33189524.18 -33189524.05 -33189523.92 0.2719 0.0598

Mercury -95578-07-23 19:11 J -33188237.82 -33188237.70 -33188237.57 0.2620 0.0561

Mercury -95568-01-16 10:18 J -33184773.15 -33184773.07 -33184773.00 0.2715 0.2234

Mercury -95565-07-25 16:18 J -33183486.90 -33183486.82 -33183486.73 0.2624 0.1854

Mercury -95561-01-09 18:13 J -33182223.81 -33182223.74 -33182223.67 0.2727 0.2234

Mercury -95558-07-19 05:44 J -33180937.35 -33180937.26 -33180937.17 0.2613 0.1838

Mercury -95548-01-11 17:01 J -33177472.91 -33177472.79 -33177472.66 0.2723 0.0681

Mercury -95545-07-21 03:20 J -33176186.49 -33176186.36 -33176186.24 0.2617 0.0492

Mercury -95535-01-14 16:18 J -33172721.94 -33172721.82 -33172721.70 0.2719 0.0921

Mercury -95532-07-24 00:27 J -33171435.60 -33171435.48 -33171435.35 0.2620 0.0840

Mercury -95522-01-17 15:49 J -33167970.88 -33167970.84 -33167970.80 0.2714 0.2565

Mercury -95519-07-26 21:35 J -33166684.67 -33166684.60 -33166684.52 0.2624 0.2135

Mercury -95515-01-09 23:44 J -33165421.60 -33165421.51 -33165421.42 0.2727 0.1919

Mercury -95512-07-19 11:01 J -33164135.14 -33164135.04 -33164134.93 0.2613 0.1550

Mercury -95502-01-12 22:32 J -33160670.68 -33160670.56 -33160670.43 0.2723 0.0366

Mercury -95499-07-22 08:37 J -33159384.27 -33159384.14 -33159384.01 0.2617 0.0201

Mercury -95489-01-15 21:49 J -33155919.70 -33155919.59 -33155919.47 0.2718 0.1259

Mercury -95486-07-25 05:59 J -33154633.37 -33154633.25 -33154633.14 0.2621 0.1119

Mercury -95473-07-27 02:51 J -33149882.42 -33149882.38 -33149882.33 0.2625 0.2407

Mercury -95469-01-11 05:15 J -33148619.39 -33148619.28 -33148619.18 0.2726 0.1611

Mercury -95466-07-20 16:32 J -33147332.93 -33147332.81 -33147332.70 0.2614 0.1263

Mercury -95456-01-13 04:03 J -33143868.45 -33143868.33 -33143868.20 0.2722 0.0104

Mercury -95453-07-22 13:54 J -33142582.05 -33142581.92 -33142581.79 0.2618 0.0085

Mercury -95443-01-16 03:35 J -33139117.46 -33139117.35 -33139117.25 0.2718 0.1591

Venus -95440-01-28 08:37 J -33138009.29 -33138009.14 -33138008.98 0.2696 0.0398

Mercury -95440-07-25 11:15 J -33137831.14 -33137831.03 -33137830.93 0.2622 0.1396

Mercury -95433-07-18 00:13 J -33135281.55 -33135281.49 -33135281.44 0.2611 0.2346

Mercury -95423-01-11 10:32 J -33131817.17 -33131817.06 -33131816.94 0.2726 0.1297

Mercury -95420-07-20 21:49 J -33130530.71 -33130530.59 -33130530.47 0.2614 0.0977

Mercury -95410-01-14 09:35 J -33127066.22 -33127066.10 -33127065.97 0.2721 0.0304

Mercury -95407-07-23 19:11 J -33125779.82 -33125779.70 -33125779.57 0.2618 0.0371

Mercury -95397-01-17 09:06 J -33122315.21 -33122315.12 -33122315.03 0.2717 0.1920

Mercury -95394-07-26 16:32 J -33121028.91 -33121028.81 -33121028.72 0.2622 0.1674

Mercury -95390-01-09 17:15 J -33119765.82 -33119765.78 -33119765.73 0.2729 0.2524

Mercury -95387-07-19 05:30 J -33118479.35 -33118479.27 -33118479.19 0.2611 0.2052

Mercury -95377-01-12 16:03 J -33115014.95 -33115014.83 -33115014.71 0.2725 0.0976

Mercury -95374-07-22 03:06 J -33113728.49 -33113728.37 -33113728.24 0.2615 0.0693

Mercury -95364-01-14 15:20 J -33110263.99 -33110263.86 -33110263.74 0.2721 0.0625

Mercury -95361-07-24 00:27 J -33108977.60 -33108977.48 -33108977.35 0.2619 0.0649

Venus -95359-08-08 17:01 J -33108231.94 -33108231.79 -33108231.64 0.2643 0.0704

Mercury -95351-01-17 14:37 J -33105512.96 -33105512.89 -33105512.82 0.2716 0.2248

Mercury -95348-07-26 21:49 J -33104226.67 -33104226.59 -33104226.51 0.2623 0.1952

Mercury -95344-01-09 22:47 J -33102963.62 -33102963.55 -33102963.48 0.2728 0.2213

Mercury -95341-07-19 11:01 J -33101677.14 -33101677.04 -33101676.95 0.2612 0.1761

Mercury -95331-01-12 21:35 J -33098212.72 -33098212.60 -33098212.47 0.2724 0.0656

Mercury -95328-07-22 08:37 J -33096926.27 -33096926.14 -33096926.02 0.2615 0.0407

Mercury -95318-01-15 20:51 J -33093461.75 -33093461.63 -33093461.51 0.2720 0.0948

Mercury -95315-07-25 05:59 J -33092175.37 -33092175.25 -33092175.13 0.2619 0.0929

Mercury -95305-01-18 20:08 J -33088710.69 -33088710.66 -33088710.62 0.2716 0.2588

Mercury -95302-07-28 03:06 J -33087424.43 -33087424.37 -33087424.31 0.2623 0.2227

Mercury -95298-01-11 04:18 J -33086161.41 -33086161.32 -33086161.23 0.2728 0.1902

Mercury -95295-07-20 16:18 J -33084874.93 -33084874.82 -33084874.71 0.2612 0.1470

Mercury -95285-01-14 03:06 J -33081410.50 -33081410.37 -33081410.24 0.2724 0.0338

Mercury -95282-07-23 13:54 J -33080124.05 -33080123.92 -33080123.79 0.2616 0.0119

Mercury -95272-01-16 02:23 J -33076659.52 -33076659.40 -33076659.29 0.2720 0.1276

Mercury -95269-07-25 11:15 J -33075373.14 -33075373.03 -33075372.92 0.2620 0.1208

Mercury -95262-07-18 23:59 J -33072823.52 -33072823.50 -33072823.48 0.2609 0.2560

Mercury -95256-07-28 08:23 J -33070622.18 -33070622.15 -33070622.11 0.2624 0.2508

Mercury -95252-01-11 09:49 J -33069359.20 -33069359.09 -33069358.99 0.2727 0.1585

Mercury -95249-07-20 21:49 J -33068072.71 -33068072.59 -33068072.48 0.2613 0.1184

Mercury -95239-01-14 08:37 J -33064608.27 -33064608.14 -33064608.01 0.2723 0.0036

Mercury -95236-07-23 19:11 J -33063321.83 -33063321.70 -33063321.57 0.2616 0.0177

Mercury -95226-01-17 07:54 J -33059857.28 -33059857.17 -33059857.07 0.2719 0.1602

Mercury -95223-07-26 16:32 J -33058570.91 -33058570.81 -33058570.71 0.2620 0.1492

Mercury -95216-07-19 05:15 J -33056021.34 -33056021.28 -33056021.21 0.2610 0.2264

Mercury -95206-01-12 15:20 J -33052556.98 -33052556.86 -33052556.75 0.2727 0.1266

Mercury -95203-07-22 03:06 J -33051270.49 -33051270.37 -33051270.25 0.2613 0.0894

Venus -95197-01-29 08:23 J -33049253.30 -33049253.15 -33049253.00 0.2700 0.0647

Mercury -95193-01-15 14:08 J -33047806.03 -33047805.91 -33047805.78 0.2723 0.0325

Mercury -95190-07-25 00:27 J -33046519.60 -33046519.48 -33046519.35 0.2617 0.0462

Mercury -95180-01-17 13:25 J -33043055.03 -33043054.94 -33043054.85 0.2719 0.1933

Mercury -95177-07-26 21:49 J -33041768.68 -33041768.59 -33041768.49 0.2621 0.1772

Mercury -95173-01-10 22:03 J -33040505.63 -33040505.58 -33040505.53 0.2730 0.2498

Mercury -95170-07-20 10:47 J -33039219.14 -33039219.05 -33039218.97 0.2610 0.1972

Mercury -95160-01-12 20:51 J -33035754.75 -33035754.63 -33035754.51 0.2726 0.0951

Mercury -95157-07-22 08:23 J -33034468.27 -33034468.15 -33034468.02 0.2614 0.0603

Mercury -95147-01-15 19:39 J -33031003.80 -33031003.68 -33031003.55 0.2722 0.0649

Mercury -95144-07-25 05:59 J -33029717.37 -33029717.25 -33029717.13 0.2617 0.0740

Mercury -95134-01-18 18:56 J -33026252.78 -33026252.71 -33026252.64 0.2718 0.2275

Mercury -95131-07-28 03:06 J -33024966.44 -33024966.37 -33024966.29 0.2621 0.2053

Mercury -95127-01-11 03:20 J -33023703.43 -33023703.36 -33023703.28 0.2730 0.2188

Mercury -95124-07-20 16:03 J -33022416.93 -33022416.83 -33022416.73 0.2611 0.1682

Venus -95116-08-08 19:25 J -33019475.85 -33019475.69 -33019475.54 0.2640 0.0800

Mercury -95114-01-14 02:08 J -33018952.53 -33018952.41 -33018952.28 0.2726 0.0637

Mercury -95111-07-23 13:54 J -33017666.05 -33017665.92 -33017665.80 0.2614 0.0327

Mercury -95101-01-17 01:11 J -33014201.57 -33014201.45 -33014201.33 0.2722 0.0973

Mercury -95098-07-26 11:15 J -33012915.15 -33012915.03 -33012914.91 0.2618 0.1024

Mercury -95088-01-19 00:42 J -33009450.51 -33009450.47 -33009450.44 0.2717 0.2609

Mercury -95085-07-28 08:37 J -33008164.20 -33008164.14 -33008164.09 0.2622 0.2333

Mercury -95081-01-12 08:51 J -33006901.22 -33006901.13 -33006901.04 0.2729 0.1875

Mercury -95078-07-21 21:35 J -33005614.71 -33005614.60 -33005614.49 0.2611 0.1392

Mercury -95068-01-14 07:39 J -33002150.31 -33002150.18 -33002150.05 0.2725 0.0315

Mercury -95065-07-23 19:11 J -33000863.83 -33000863.70 -33000863.57 0.2615 0.0028

Mercury -95055-01-17 06:42 J -32997399.33 -32997399.22 -32997399.10 0.2721 0.1297

Mercury -95052-07-26 16:32 J -32996112.92 -32996112.81 -32996112.70 0.2618 0.1308

Mercury -95045-07-19 05:01 J -32993563.32 -32993563.29 -32993563.25 0.2608 0.2479

Mercury -95039-07-29 13:54 J -32991361.93 -32991361.92 -32991361.92 0.2622 0.2611

Mercury -95035-01-12 14:23 J -32990099.00 -32990098.90 -32990098.79 0.2729 0.1557

Mercury -95032-07-22 02:51 J -32988812.50 -32988812.38 -32988812.26 0.2612 0.1099

Mercury -95022-01-15 13:11 J -32985348.08 -32985347.95 -32985347.82 0.2725 0.0064

Mercury -95019-07-25 00:27 J -32984061.61 -32984061.48 -32984061.35 0.2615 0.0261

Mercury -95009-01-18 12:13 J -32980597.09 -32980596.99 -32980596.88 0.2720 0.1627

Mercury -95006-07-27 21:49 J -32979310.69 -32979310.59 -32979310.48 0.2619 0.1589

95TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 95th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-94999-07-20 10:32 J	-32976761.13	-32976761.06	-32976760.99	0.2609	0.2187		
Mercury	-94989-01-13 19:54 J	-32973296.78	-32973296.67	-32973296.56	0.2728	0.1244		
Mercury	-94986-07-23 08:23 J	-32972010.28	-32972010.15	-32972010.03	0.2612	0.0804		
Mercury	-94976-01-15 18:42 J	-32968545.85	-32968545.72	-32968545.59	0.2724	0.0338		
Mercury	-94973-07-25 05:59 J	-32967259.38	-32967259.25	-32967259.13	0.2616	0.0551		
Mercury	-94963-01-18 17:59 J	-32963794.84	-32963794.75	-32963794.66	0.2720	0.1958		
Mercury	-94960-07-28 03:20 J	-32962508.45	-32962508.36	-32962508.28	0.2620	0.1869		
Mercury	-94956-01-11 02:37 J	-32961245.44	-32961245.39	-32961245.33	0.2732	0.2469		
Venus	-94954-01-29 07:39 J	-32960497.33	-32960497.18	-32960497.03	0.2703	0.0973		
Mercury	-94953-07-20 15:49 J	-32959958.92	-32959958.84	-32959958.75	0.2609	0.1892		
Mercury	-94943-01-14 01:25 J	-32956494.56	-32956494.44	-32956494.32	0.2728	0.0928		

Mercury -94940-07-23 13:39 J -32955208.06 -32955207.93 -32955207.80 0.2613 0.0515

Mercury -94930-01-17 00:13 J -32951743.61 -32951743.49 -32951743.36 0.2723 0.0659

Mercury -94927-07-26 11:15 J -32950457.15 -32950457.03 -32950456.91 0.2616 0.0835

Mercury -94917-01-19 23:30 J -32946992.59 -32946992.52 -32946992.46 0.2719 0.2289

Mercury -94914-07-29 08:37 J -32945706.21 -32945706.14 -32945706.07 0.2620 0.2152

Mercury -94910-01-12 08:08 J -32944443.23 -32944443.16 -32944443.08 0.2731 0.2157

Mercury -94907-07-21 21:20 J -32943156.71 -32943156.61 -32943156.51 0.2610 0.1599

Mercury -94897-01-15 06:56 J -32939692.34 -32939692.21 -32939692.09 0.2727 0.0609

Mercury -94894-07-24 19:11 J -32938405.83 -32938405.70 -32938405.57 0.2613 0.0232

Mercury -94884-01-17 05:44 J -32934941.38 -32934941.26 -32934941.14 0.2723 0.0989

Mercury -94881-07-26 16:32 J -32933654.92 -32933654.81 -32933654.69 0.2617 0.1122

Venus -94873-08-08 21:49 J -32930719.74 -32930719.59 -32930719.44 0.2637 0.0918

Mercury -94871-01-20 05:01 J -32930190.32 -32930190.29 -32930190.26 0.2719 0.2620

Mercury -94868-07-29 13:54 J -32928903.96 -32928903.92 -32928903.88 0.2621 0.2432

Mercury -94864-01-12 13:39 J -32927641.02 -32927640.93 -32927640.84 0.2730 0.1842

Mercury -94861-07-22 02:51 J -32926354.50 -32926354.38 -32926354.27 0.2610 0.1304

Mercury -94851-01-15 12:27 J -32922890.11 -32922889.98 -32922889.86 0.2726 0.0291

Mercury -94848-07-25 00:27 J -32921603.61 -32921603.48 -32921603.35 0.2614 0.0064

Mercury -94838-01-18 11:15 J -32918139.14 -32918139.03 -32918138.91 0.2722 0.1322

Mercury -94835-07-27 22:03 J -32916852.69 -32916852.58 -32916852.48 0.2617 0.1406

Mercury -94828-07-20 10:18 J -32914303.12 -32914303.07 -32914303.03 0.2607 0.2406

Mercury -94818-01-13 19:11 J -32910838.81 -32910838.70 -32910838.60 0.2730 0.1534

Mercury -94815-07-23 08:08 J -32909552.28 -32909552.16 -32909552.04 0.2611 0.1008

Mercury -94805-01-16 17:44 J -32906087.88 -32906087.76 -32906087.63 0.2726 0.0087

Mercury -94802-07-26 05:59 J -32904801.38 -32904801.25 -32904801.13 0.2614 0.0370

Mercury -94792-01-18 16:47 J -32901336.90 -32901336.80 -32901336.69 0.2722 0.1652

Mercury -94789-07-28 03:20 J -32900050.46 -32900050.36 -32900050.27 0.2618 0.1687

Mercury -94782-07-21 15:35 J -32897500.92 -32897500.85 -32897500.77 0.2608 0.2107

Mercury -94772-01-14 00:27 J -32894036.59 -32894036.48 -32894036.36 0.2729 0.1217

Mercury -94769-07-23 13:25 J -32892750.06 -32892749.94 -32892749.81 0.2611 0.0725

Mercury -94759-01-16 23:15 J -32889285.65 -32889285.53 -32889285.40 0.2725 0.0363

Mercury -94756-07-26 11:15 J -32887999.16 -32887999.03 -32887998.91 0.2615 0.0643

Mercury -94746-01-19 22:18 J -32884534.65 -32884534.57 -32884534.48 0.2721 0.1980

Mercury -94743-07-29 08:37 J -32883248.22 -32883248.14 -32883248.06 0.2618 0.1971

Mercury -94739-01-12 07:25 J -32881985.24 -32881985.19 -32881985.13 0.2733 0.2441

Mercury -94736-07-21 21:06 J -32880698.71 -32880698.62 -32880698.53 0.2608 0.1812

Mercury -94726-01-15 05:59 J -32877234.37 -32877234.25 -32877234.13 0.2729 0.0901

Mercury -94723-07-24 18:56 J -32875947.84 -32875947.71 -32875947.58 0.2612 0.0426

Mercury -94713-01-18 04:47 J -32872483.42 -32872483.30 -32872483.17 0.2725 0.0686

Venus -94711-01-29 07:11 J -32871741.34 -32871741.20 -32871741.06 0.2706 0.1259

Mercury -94710-07-27 16:32 J -32871196.93 -32871196.81 -32871196.69 0.2615 0.0927

Mercury -94700-01-20 03:49 J -32867732.40 -32867732.34 -32867732.27 0.2721 0.2308

Mercury -94697-07-29 13:54 J -32866445.98 -32866445.92 -32866445.86 0.2619 0.2249

Mercury -94693-01-13 12:56 J -32865183.04 -32865182.96 -32865182.89 0.2732 0.2133

Mercury -94690-07-23 02:37 J -32863896.50 -32863896.39 -32863896.29 0.2609 0.1510

Mercury -94680-01-15 11:30 J -32860432.15 -32860432.02 -32860431.90 0.2728 0.0581

Mercury -94677-07-25 00:13 J -32859145.62 -32859145.49 -32859145.36 0.2612 0.0157

Mercury -94667-01-18 10:18 J -32855681.19 -32855681.07 -32855680.95 0.2724 0.1010

Mercury -94664-07-27 21:49 J -32854394.70 -32854394.59 -32854394.47 0.2616 0.1212

Mercury -94654-01-21 09:20 J -32850930.13 -32850930.11 -32850930.08 0.2720 0.2642

Mercury -94651-07-30 19:11 J -32849643.73 -32849643.70 -32849643.67 0.2620 0.2532

Mercury -94647-01-13 18:13 J -32848380.83 -32848380.74 -32848380.64 0.2732 0.1821

Mercury -94644-07-23 07:54 J -32847094.28 -32847094.17 -32847094.05 0.2609 0.1217

Mercury -94634-01-16 17:01 J -32843629.92 -32843629.79 -32843629.67 0.2728 0.0268

Mercury -94631-07-26 05:44 J -32842343.39 -32842343.26 -32842343.13 0.2613 0.0162

Venus -94630-08-10 00:13 J -32841963.63 -32841963.49 -32841963.34 0.2635 0.1045

Mercury -94621-01-19 15:49 J -32838878.95 -32838878.84 -32838878.73 0.2724 0.1338

Mercury -94618-07-29 03:20 J -32837592.47 -32837592.36 -32837592.26 0.2616 0.1502

Mercury -94611-07-21 15:20 J -32835042.91 -32835042.86 -32835042.80 0.2606 0.2321

Mercury -94601-01-14 23:44 J -32831578.61 -32831578.51 -32831578.40 0.2731 0.1501

Mercury -94598-07-24 13:25 J -32830292.06 -32830291.94 -32830291.82 0.2609 0.0920

Mercury -94588-01-16 22:32 J -32826827.69 -32826827.56 -32826827.44 0.2727 0.0091

Mercury -94585-07-26 11:01 J -32825541.16 -32825541.04 -32825540.91 0.2613 0.0450

Mercury -94575-01-19 21:20 J -32822076.71 -32822076.61 -32822076.51 0.2723 0.1668

Mercury -94572-07-29 08:37 J -32820790.23 -32820790.14 -32820790.05 0.2617 0.1789

Mercury -94568-01-12 06:42 J -32819527.22 -32819527.22 -32819527.21 0.2734 0.2719

Mercury -94565-07-21 20:51 J -32818240.71 -32818240.63 -32818240.55 0.2606 0.2023

Mercury -94555-01-15 05:15 J -32814776.39 -32814776.28 -32814776.17 0.2730 0.1189

Mercury -94552-07-24 18:42 J -32813489.84 -32813489.72 -32813489.59 0.2610 0.0630

Mercury -94542-01-18 04:03 J -32810025.46 -32810025.33 -32810025.21 0.2727 0.0400

Mercury -94539-07-27 16:32 J -32808738.94 -32808738.81 -32808738.69 0.2614 0.0740

Mercury -94529-01-21 02:51 J -32805274.46 -32805274.38 -32805274.29 0.2723 0.2001

Mercury -94526-07-30 13:54 J -32803987.99 -32803987.92 -32803987.84 0.2617 0.2070

Mercury -94522-01-13 12:13 J -32802725.05 -32802724.99 -32802724.93 0.2734 0.2412

Mercury -94519-07-23 02:23 J -32801438.50 -32801438.40 -32801438.31 0.2607 0.1724

Mercury -94509-01-16 10:47 J -32797974.17 -32797974.05 -32797973.93 0.2730 0.0873

Mercury -94506-07-26 00:13 J -32796687.62 -32796687.49 -32796687.36 0.2610 0.0341

Mercury -94496-01-18 09:20 J -32793223.23 -32793223.11 -32793222.98 0.2726 0.0715

Mercury -94493-07-27 21:49 J -32791936.71 -32791936.59 -32791936.47 0.2614 0.1022

Mercury -94483-01-21 08:23 J -32788472.21 -32788472.15 -32788472.08 0.2722 0.2330

Mercury -94480-07-30 19:11 J -32787185.75 -32787185.70 -32787185.64 0.2618 0.2357

Mercury -94476-01-13 17:44 J -32785922.84 -32785922.76 -32785922.69 0.2733 0.2103

Mercury -94473-07-23 07:39 J -32784636.29 -32784636.18 -32784636.07 0.2608 0.1430

Venus -94468-01-29 06:27 J -32782985.36 -32782985.23 -32782985.10 0.2709 0.1586

Mercury -94463-01-16 16:03 J -32781171.95 -32781171.83 -32781171.70 0.2729 0.0560

Mercury -94460-07-26 05:30 J -32779885.40 -32779885.27 -32779885.14 0.2611 0.0058

Mercury -94450-01-19 14:51 J -32776421.00 -32776420.88 -32776420.76 0.2725 0.1036

Mercury -94447-07-29 03:06 J -32775134.48 -32775134.37 -32775134.26 0.2614 0.1316

Mercury -94440-07-21 15:06 J -32772584.90 -32772584.87 -32772584.85 0.2605 0.2544

Mercury -94437-01-22 13:54 J -32771669.94 -32771669.92 -32771669.89 0.2721 0.2663

Mercury -94430-01-14 23:01 J -32769120.63 -32769120.54 -32769120.44 0.2733 0.1792

Mercury -94427-07-24 13:11 J -32767834.07 -32767833.95 -32767833.84 0.2608 0.1134

Mercury -94417-01-17 21:35 J -32764369.73 -32764369.60 -32764369.47 0.2729 0.0236

Mercury -94414-07-27 11:01 J -32763083.17 -32763083.04 -32763082.92 0.2611 0.0263

Mercury -94404-01-19 20:23 J -32759618.76 -32759618.65 -32759618.54 0.2725 0.1359

Mercury -94401-07-29 08:37 J -32758332.24 -32758332.14 -32758332.04 0.2615 0.1599

Mercury -94394-07-22 20:23 J -32755782.71 -32755782.65 -32755782.58 0.2605 0.2241

Venus -94387-08-10 02:51 J -32753207.52 -32753207.38 -32753207.24 0.2632 0.1173

Mercury -94384-01-15 04:32 J -32752318.42 -32752318.31 -32752318.21 0.2732 0.1480

Mercury -94381-07-24 18:27 J -32751031.85 -32751031.73 -32751031.60 0.2608 0.0838

Venus -94379-08-07 19:25 J -32750287.72 -32750287.69 -32750287.66 0.2628 0.2570

Mercury -94371-01-18 03:06 J -32747567.50 -32747567.37 -32747567.24 0.2728 0.0091

Mercury -94368-07-27 16:18 J -32746280.95 -32746280.82 -32746280.69 0.2612 0.0541

Mercury -94358-01-21 01:54 J -32742816.52 -32742816.42 -32742816.32 0.2724 0.1690

Mercury -94355-07-30 13:54 J -32741530.01 -32741529.92 -32741529.83 0.2616 0.1885

Mercury -94351-01-13 11:30 J -32740267.03 -32740267.02 -32740267.00 0.2736 0.2691

Mercury -94348-07-23 01:54 J -32738980.50 -32738980.42 -32738980.33 0.2605 0.1939

Mercury -94338-01-16 10:03 J -32735516.20 -32735516.08 -32735515.97 0.2732 0.1166

Mercury -94335-07-25 23:59 J -32734229.63 -32734229.50 -32734229.37 0.2609 0.0539

Mercury -94325-01-19 08:37 J -32730765.27 -32730765.14 -32730765.02 0.2728 0.0413

Mercury -94322-07-28 21:35 J -32729478.72 -32729478.60 -32729478.47 0.2612 0.0836

Mercury -94312-01-21 07:25 J -32726014.28 -32726014.19 -32726014.11 0.2724 0.2014

Mercury -94309-07-30 19:11 J -32724727.77 -32724727.70 -32724727.63 0.2616 0.2173

Mercury -94305-01-14 17:01 J -32723464.85 -32723464.79 -32723464.73 0.2735 0.2380

Mercury -94302-07-24 07:25 J -32722178.29 -32722178.19 -32722178.09 0.2606 0.1642

Mercury -94292-01-16 15:20 J -32718713.98 -32718713.86 -32718713.74 0.2731 0.0846

Mercury -94289-07-26 05:15 J -32717427.41 -32717427.28 -32717427.15 0.2609 0.0260

Mercury -94279-01-19 14:08 J -32713963.04 -32713962.91 -32713962.79 0.2727 0.0739

Mercury -94276-07-29 03:06 J -32712676.49 -32712676.37 -32712676.25 0.2613 0.1126

Mercury -94266-01-22 12:56 J -32709212.02 -32709211.96 -32709211.90 0.2723 0.2349

Mercury -94263-08-01 00:42 J -32707925.51 -32707925.47 -32707925.43 0.2617 0.2457

Mercury -94259-01-14 22:18 J -32706662.65 -32706662.57 -32706662.49 0.2734 0.2077

Mercury -94256-07-24 12:42 J -32705376.08 -32705375.97 -32705375.85 0.2606 0.1345

Mercury -94246-01-17 20:51 J -32701911.76 -32701911.63 -32701911.51 0.2731 0.0527

Mercury -94243-07-27 10:47 J -32700625.18 -32700625.05 -32700624.92 0.2610 0.0059

Mercury -94233-01-20 19:25 J -32697160.80 -32697160.69 -32697160.57 0.2727 0.1062

Venus -94233-02-01 15:49 J -32697148.90 -32697148.84 -32697148.78 0.2708 0.2493

Mercury -94230-07-30 08:23 J -32695874.25 -32695874.15 -32695874.04 0.2613 0.1412

Venus -94225-01-30 05:30 J -32694229.38 -32694229.27 -32694229.16 0.2712 0.1941

Mercury -94223-07-22 20:08 J -32693324.70 -32693324.66 -32693324.62 0.2604 0.2467

Mercury -94220-01-22 18:27 J -32692409.75 -32692409.73 -32692409.71 0.2723 0.2681

Mercury -94213-01-16 03:49 J -32689860.43 -32689860.34 -32689860.24 0.2734 0.1762

Mercury -94210-07-25 18:13 J -32688573.86 -32688573.74 -32688573.62 0.2607 0.1048

Mercury -94200-01-18 02:23 J -32685109.53 -32685109.40 -32685109.28 0.2730 0.0236

Mercury -94197-07-27 16:03 J -32683822.95 -32683822.83 -32683822.70 0.2610 0.0352

Mercury -94187-01-21 00:56 J -32680358.57 -32680358.46 -32680358.35 0.2726 0.1385

Mercury -94184-07-30 13:54 J -32679072.02 -32679071.92 -32679071.83 0.2614 0.1702

Mercury -94177-07-23 01:39 J -32676522.51 -32676522.43 -32676522.36 0.2604 0.2164

Mercury -94167-01-16 09:20 J -32673058.22 -32673058.11 -32673058.01 0.2733 0.1454

Mercury -94164-07-25 23:44 J -32671771.64 -32671771.51 -32671771.39 0.2607 0.0751

Mercury -94154-01-19 07:39 J -32668307.30 -32668307.18 -32668307.05 0.2729 0.0129

Mercury -94151-07-28 21:35 J -32667020.73 -32667020.60 -32667020.48 0.2611 0.0635

Venus -94144-08-10 05:15 J -32664451.42 -32664451.28 -32664451.14 0.2629 0.1298

Mercury -94141-01-22 06:27 J -32663556.33 -32663556.23 -32663556.13 0.2726 0.1708

Mercury -94138-07-31 19:11 J -32662269.78 -32662269.70 -32662269.62 0.2614 0.1986

Venus -94136-08-07 22:03 J -32661531.64 -32661531.58 -32661531.53 0.2626 0.2436

Mercury -94134-01-14 16:18 J -32661006.84 -32661006.82 -32661006.79 0.2736 0.2666

Mercury -94131-07-24 06:56 J -32659720.30 -32659720.21 -32659720.12 0.2605 0.1861

Mercury -94121-01-17 14:37 J -32656256.00 -32656255.89 -32656255.77 0.2733 0.1136

Mercury -94118-07-27 05:01 J -32654969.42 -32654969.29 -32654969.16 0.2608 0.0456

Mercury -94108-01-19 13:11 J -32651505.08 -32651504.95 -32651504.82 0.2729 0.0431

Mercury -94105-07-29 02:51 J -32650218.50 -32650218.38 -32650218.25 0.2611 0.0933

Mercury -94095-01-22 11:59 J -32646754.08 -32646754.00 -32646753.92 0.2725 0.2039

Mercury -94092-08-01 00:27 J -32645467.54 -32645467.48 -32645467.42 0.2615 0.2275

Mercury -94088-01-14 21:49 J -32644204.65 -32644204.59 -32644204.53 0.2736 0.2359

Mercury -94085-07-24 12:27 J -32642918.08 -32642917.98 -32642917.87 0.2605 0.1558

Mercury -94075-01-17 20:08 J -32639453.78 -32639453.66 -32639453.54 0.2732 0.0826

Mercury -94072-07-27 10:32 J -32638167.19 -32638167.06 -32638166.93 0.2608 0.0155

Mercury -94062-01-20 18:42 J -32634702.84 -32634702.72 -32634702.60 0.2728 0.0755

Mercury -94059-07-30 08:23 J -32633416.27 -32633416.15 -32633416.04 0.2612 0.1219

Mercury -94049-01-23 17:30 J -32629951.83 -32629951.77 -32629951.71 0.2724 0.2367

Mercury -94046-08-02 05:59 J -32628665.28 -32628665.25 -32628665.23 0.2616 0.2559

Mercury -94042-01-16 03:06 J -32627402.45 -32627402.37 -32627402.28 0.2736 0.2048

Mercury -94039-07-25 17:59 J -32626115.87 -32626115.75 -32626115.64 0.2605 0.1260

Mercury -94029-01-19 01:25 J -32622651.56 -32622651.44 -32622651.31 0.2732 0.0513

Mercury -94026-07-28 15:49 J -32621364.97 -32621364.84 -32621364.70 0.2609 0.0170

Mercury -94016-01-20 23:59 J -32617900.61 -32617900.50 -32617900.38 0.2728 0.1077

Mercury -94013-07-30 13:39 J -32616614.03 -32616613.93 -32616613.82 0.2612 0.1511

Mercury -94006-07-24 01:11 J -32614064.50 -32614064.45 -32614064.40 0.2603 0.2382

Mercury -94003-01-23 23:01 J -32613149.56 -32613149.54 -32613149.53 0.2724 0.2698

94TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 94th millennium BCE.

PLANET	MAX- TRANSIT	C	START	MAX	END	SUNRAD	DEPTH	S
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TIME

Mercury -93996-01-16 08:37 J -32610600.24 -32610600.14 -32610600.04 0.2735 0.1734

Mercury -93993-07-25 23:15 J -32609313.65 -32609313.53 -32609313.40 0.2606 0.0961

Venus -93990-02-01 14:51 J -32608392.97 -32608392.88 -32608392.79 0.2711 0.2147

Mercury -93983-01-19 06:56 J -32605849.33 -32605849.21 -32605849.08 0.2731 0.0188

Venus -93982-01-30 04:47 J -32605473.38 -32605473.30 -32605473.22 0.2715 0.2289

Mercury -93980-07-28 21:20 J -32604562.74 -32604562.61 -32604562.48 0.2609 0.0437

Mercury -93970-01-22 05:30 J -32601098.38 -32601098.27 -32601098.16 0.2727 0.1403

Mercury -93967-07-31 19:11 J -32599811.80 -32599811.70 -32599811.61 0.2613 0.1800

Mercury -93960-07-24 06:27 J -32597262.30 -32597262.23 -32597262.15 0.2603 0.2083

Mercury -93950-01-17 13:54 J -32593798.02 -32593797.92 -32593797.81 0.2734 0.1426

Mercury -93947-07-27 04:47 J -32592511.43 -32592511.30 -32592511.17 0.2606 0.0657

Mercury -93937-01-20 12:27 J -32589047.11 -32589046.98 -32589046.85 0.2731 0.0139

Mercury -93934-07-30 02:51 J -32587760.51 -32587760.38 -32587760.26 0.2610 0.0736

Mercury -93924-01-22 11:01 J -32584296.13 -32584296.04 -32584295.94 0.2727 0.1732

Mercury -93921-08-01 00:27 J -32583009.56 -32583009.48 -32583009.40 0.2613 0.2090

Mercury -93917-01-15 21:06 J -32581746.65 -32581746.62 -32581746.59 0.2738 0.2638

Mercury -93914-07-25 11:59 J -32580460.09 -32580460.00 -32580459.90 0.2604 0.1779

Mercury -93904-01-17 19:25 J -32576995.81 -32576995.69 -32576995.58 0.2734 0.1113

Mercury -93901-07-27 10:18 J -32575709.20 -32575709.07 -32575708.94 0.2607 0.0362

Venus -93901-08-10 07:54 J -32575695.30 -32575695.17 -32575695.04 0.2627 0.1447

Venus -93893-08-08 00:27 J -32572775.55 -32572775.48 -32572775.40 0.2623 0.2287

Mercury -93891-01-20 17:59 J -32572244.88 -32572244.75 -32572244.63 0.2730 0.0465

Mercury -93888-07-30 08:08 J -32570958.28 -32570958.16 -32570958.04 0.2610 0.1026

Mercury -93878-01-23 16:32 J -32567493.89 -32567493.81 -32567493.73 0.2726 0.2061

Mercury -93875-08-02 05:44 J -32566207.31 -32566207.26 -32566207.20 0.2614 0.2377

Mercury -93871-01-16 02:37 J -32564944.45 -32564944.39 -32564944.33 0.2737 0.2327

Mercury -93868-07-25 17:30 J -32563657.88 -32563657.77 -32563657.66 0.2604 0.1477

Mercury -93858-01-19 00:56 J -32560193.59 -32560193.46 -32560193.34 0.2733 0.0803

Mercury -93855-07-28 15:35 J -32558906.98 -32558906.85 -32558906.72 0.2607 0.0083

Mercury -93845-01-21 23:15 J -32555442.65 -32555442.53 -32555442.41 0.2730 0.0774

Mercury -93842-07-31 13:25 J -32554156.05 -32554155.94 -32554155.82 0.2611 0.1320

Mercury -93832-01-23 22:03 J -32550691.64 -32550691.58 -32550691.52 0.2726 0.2387

Mercury -93825-01-17 07:54 J -32548142.25 -32548142.17 -32548142.08 0.2737 0.2020

Mercury -93822-07-26 23:01 J -32546855.66 -32546855.54 -32546855.42 0.2605 0.1171

Mercury -93812-01-19 06:13 J -32543391.36 -32543391.24 -32543391.11 0.2733 0.0482

Mercury -93809-07-28 21:06 J -32542104.75 -32542104.62 -32542104.49 0.2608 0.0235

Mercury -93799-01-22 04:47 J -32538640.42 -32538640.30 -32538640.18 0.2729 0.1100

Mercury -93796-07-31 18:56 J -32537353.81 -32537353.71 -32537353.61 0.2611 0.1605

Mercury -93789-07-24 06:13 J -32534804.30 -32534804.24 -32534804.18 0.2602 0.2305

Mercury -93786-01-25 03:35 J -32533889.36 -32533889.35 -32533889.35 0.2725 0.2712

Mercury -93779-01-17 13:25 J -32531340.04 -32531339.94 -32531339.85 0.2736 0.1714

Mercury -93776-07-27 04:32 J -32530053.44 -32530053.31 -32530053.19 0.2605 0.0874

Mercury -93766-01-20 11:44 J -32526589.14 -32526589.01 -32526588.89 0.2732 0.0174

Mercury -93763-07-30 02:23 J -32525302.52 -32525302.40 -32525302.27 0.2608 0.0537

Mercury -93753-01-23 10:18 J -32521838.18 -32521838.07 -32521837.97 0.2729 0.1424

Mercury -93750-08-02 00:13 J -32520551.57 -32520551.49 -32520551.40 0.2612 0.1898

Venus -93747-02-01 13:54 J -32519637.04 -32519636.92 -32519636.80 0.2714 0.1787

Mercury -93743-07-25 11:44 J -32518002.10 -32518002.01 -32518001.93 0.2602 0.1998

Venus -93739-01-30 03:35 J -32516717.37 -32516717.35 -32516717.33 0.2718 0.2690

Mercury -93733-01-18 18:42 J -32514537.82 -32514537.72 -32514537.61 0.2736 0.1401

Mercury -93730-07-28 09:49 J -32513251.22 -32513251.09 -32513250.96 0.2605 0.0572

Mercury -93720-01-20 17:01 J -32509786.91 -32509786.79 -32509786.66 0.2732 0.0159

Mercury -93717-07-30 07:54 J -32508500.29 -32508500.17 -32508500.05 0.2609 0.0826

Mercury -93707-01-23 15:35 J -32505035.94 -32505035.85 -32505035.75 0.2728 0.1748

Mercury -93704-08-02 05:44 J -32503749.33 -32503749.26 -32503749.19 0.2612 0.2188

Mercury -93700-01-16 02:08 J -32502486.45 -32502486.41 -32502486.38 0.2739 0.2602

Mercury -93697-07-25 17:01 J -32501199.89 -32501199.79 -32501199.69 0.2603 0.1696

Mercury -93687-01-19 00:13 J -32497735.61 -32497735.49 -32497735.38 0.2735 0.1084

Mercury -93684-07-28 15:20 J -32496448.99 -32496448.86 -32496448.73 0.2606 0.0271

Mercury -93674-01-21 22:32 J -32492984.69 -32492984.56 -32492984.44 0.2731 0.0475

Mercury -93671-07-31 13:25 J -32491698.06 -32491697.94 -32491697.83 0.2609 0.1123

Mercury -93661-01-24 21:06 J -32488233.70 -32488233.62 -32488233.54 0.2727 0.2072

Mercury -93658-08-03 11:01 J -32486947.08 -32486947.04 -32486947.00 0.2613 0.2481

Venus -93658-08-11 10:32 J -32486939.19 -32486939.06 -32486938.94 0.2624 0.1580

Mercury -93654-01-17 07:25 J -32485684.25 -32485684.19 -32485684.12 0.2738 0.2297

Mercury -93651-07-26 22:32 J -32484397.67 -32484397.56 -32484397.45 0.2603 0.1385

Venus -93650-08-09 03:20 J -32484019.45 -32484019.36 -32484019.27 0.2621 0.2128

Mercury -93641-01-20 05:44 J -32480933.39 -32480933.26 -32480933.14 0.2735 0.0774

Mercury -93638-07-29 20:51 J -32479646.77 -32479646.63 -32479646.50 0.2606 0.0081

Mercury -93628-01-22 04:03 J -32476182.45 -32476182.33 -32476182.21 0.2731 0.0802

Mercury -93625-07-31 18:42 J -32474895.83 -32474895.72 -32474895.61 0.2610 0.1414

Mercury -93618-07-25 05:44 J -32472346.29 -32472346.26 -32472346.24 0.2600 0.2531

Mercury -93615-01-25 02:37 J -32471431.45 -32471431.39 -32471431.33 0.2727 0.2405

Mercury -93608-01-17 12:56 J -32468882.05 -32468881.96 -32468881.88 0.2738 0.1995

Mercury -93605-07-27 04:03 J -32467595.45 -32467595.33 -32467595.21 0.2603 0.1086

Mercury -93595-01-20 11:01 J -32464131.16 -32464131.04 -32464130.92 0.2734 0.0454

Mercury -93592-07-30 02:08 J -32462844.54 -32462844.41 -32462844.28 0.2607 0.0336

Mercury -93582-01-23 09:20 J -32459380.22 -32459380.11 -32459379.99 0.2730 0.1126

Mercury -93579-08-02 00:13 J -32458093.59 -32458093.49 -32458093.40 0.2610 0.1711

Mercury -93572-07-25 11:01 J -32455544.10 -32455544.04 -32455543.97 0.2601 0.2227

Mercury -93562-01-18 18:13 J -32452079.84 -32452079.74 -32452079.64 0.2737 0.1683

Mercury -93559-07-28 09:35 J -32450793.23 -32450793.10 -32450792.98 0.2604 0.0787

Mercury -93549-01-21 16:18 J -32447328.94 -32447328.82 -32447328.69 0.2733 0.0166

Mercury -93546-07-31 07:39 J -32446042.31 -32446042.18 -32446042.05 0.2607 0.0625

Mercury -93536-01-23 14:51 J -32442577.99 -32442577.88 -32442577.77 0.2730 0.1443

Mercury -93533-08-02 05:30 J -32441291.35 -32441291.27 -32441291.19 0.2611 0.2001

Mercury -93526-07-26 16:32 J -32438741.90 -32438741.81 -32438741.72 0.2601 0.1920

Mercury -93516-01-18 23:30 J -32435277.62 -32435277.52 -32435277.41 0.2737 0.1375

Mercury -93513-07-28 14:51 J -32433991.01 -32433990.88 -32433990.75 0.2604 0.0488

Venus -93504-02-01 12:56 J -32430881.09 -32430880.96 -32430880.83 0.2716 0.1418

Mercury -93503-01-21 21:49 J -32430526.72 -32430526.59 -32430526.46 0.2733 0.0177

Mercury -93500-07-31 12:56 J -32429240.08 -32429239.96 -32429239.83 0.2608 0.0924

Mercury -93490-01-24 20:23 J -32425775.75 -32425775.65 -32425775.56 0.2729 0.1769

Mercury -93487-08-03 10:47 J -32424489.10 -32424489.05 -32424488.99 0.2611 0.2293

Mercury -93483-01-17 06:56 J -32423226.25 -32423226.21 -32423226.17 0.2740 0.2579

Mercury -93480-07-26 22:03 J -32421939.68 -32421939.58 -32421939.47 0.2602 0.1608

Mercury -93470-01-20 05:01 J -32418475.41 -32418475.29 -32418475.18 0.2736 0.1061

Mercury -93467-07-29 20:23 J -32417188.78 -32417188.65 -32417188.52 0.2605 0.0180

Mercury -93457-01-23 03:20 J -32413724.49 -32413724.36 -32413724.24 0.2732 0.0505

Mercury -93454-08-01 18:27 J -32412437.85 -32412437.73 -32412437.62 0.2608 0.1215

Mercury -93444-01-25 01:39 J -32408973.50 -32408973.43 -32408973.35 0.2729 0.2099

Mercury -93441-08-03 16:18 J -32407686.84 -32407686.82 -32407686.81 0.2612 0.2581

Mercury -93437-01-18 12:13 J -32406424.05 -32406423.99 -32406423.92 0.2739 0.2273

Mercury -93434-07-28 03:35 J -32405137.46 -32405137.35 -32405137.24 0.2602 0.1304

Mercury -93424-01-20 10:18 J -32401673.19 -32401673.07 -32401672.95 0.2736 0.0751

Mercury -93421-07-30 01:54 J -32400386.55 -32400386.42 -32400386.29 0.2605 0.0125

Venus -93415-08-11 13:11 J -32398183.07 -32398182.95 -32398182.83 0.2622 0.1737

Mercury -93411-01-23 08:37 J -32396922.26 -32396922.14 -32396922.02 0.2732 0.0821

Mercury -93408-08-01 23:59 J -32395635.61 -32395635.50 -32395635.40 0.2609 0.1519

Venus -93407-08-09 05:59 J -32395263.35 -32395263.25 -32395263.15 0.2619 0.1978

Mercury -93401-07-25 10:32 J -32393086.10 -32393086.06 -32393086.02 0.2599 0.2453

Mercury -93398-01-26 07:11 J -32392171.25 -32392171.20 -32392171.14 0.2728 0.2425

Mercury -93391-01-18 17:44 J -32389621.85 -32389621.76 -32389621.68 0.2739 0.1961

Mercury -93388-07-28 09:06 J -32388335.24 -32388335.12 -32388335.00 0.2603 0.0996

Mercury -93378-01-21 15:49 J -32384870.97 -32384870.84 -32384870.72 0.2735 0.0429

Mercury -93375-07-31 07:25 J -32383584.32 -32383584.19 -32383584.06 0.2606 0.0430

Mercury -93365-01-24 14:08 J -32380120.03 -32380119.91 -32380119.80 0.2731 0.1140

Mercury -93362-08-03 05:15 J -32378833.37 -32378833.28 -32378833.19 0.2609 0.1812

Mercury -93355-07-26 16:03 J -32376283.90 -32376283.83 -32376283.75 0.2600 0.2140

Mercury -93345-01-19 23:01 J -32372819.64 -32372819.54 -32372819.44 0.2738 0.1652

Mercury -93342-07-29 14:37 J -32371533.02 -32371532.89 -32371532.77 0.2603 0.0698

Mercury -93332-01-21 21:06 J -32368068.74 -32368068.62 -32368068.49 0.2735 0.0142

Mercury -93329-07-31 12:42 J -32366782.09 -32366781.97 -32366781.84 0.2606 0.0725

Mercury -93319-01-24 19:39 J -32363317.79 -32363317.68 -32363317.58 0.2731 0.1471

Mercury -93316-08-03 10:47 J -32362031.13 -32362031.05 -32362030.98 0.2610 0.2106

Mercury -93309-07-26 21:35 J -32359481.69 -32359481.60 -32359481.50 0.2600 0.1833

Mercury -93299-01-20 04:32 J -32356017.42 -32356017.31 -32356017.21 0.2738 0.1346

Mercury -93296-07-29 20:08 J -32354730.79 -32354730.66 -32354730.53 0.2603 0.0393

Mercury -93286-01-23 02:37 J -32351266.52 -32351266.39 -32351266.26 0.2734 0.0207

Mercury -93283-08-01 18:13 J -32349979.86 -32349979.74 -32349979.62 0.2607 0.1021

Mercury -93273-01-26 00:56 J -32346515.55 -32346515.46 -32346515.36 0.2730 0.1796

Mercury -93270-08-04 16:03 J -32345228.88 -32345228.83 -32345228.78 0.2610 0.2397

Mercury -93266-01-18 11:59 J -32343966.05 -32343966.00 -32343965.96 0.2740 0.2548

Mercury -93263-07-28 03:06 J -32342679.48 -32342679.37 -32342679.26 0.2601 0.1526

Venus -93261-02-02 11:59 J -32342125.15 -32342125.00 -32342124.85 0.2719 0.1041

Mercury -93253-01-21 09:49 J -32339215.21 -32339215.09 -32339214.98 0.2737 0.1034

Mercury -93250-07-31 01:25 J -32337928.57 -32337928.44 -32337928.30 0.2604 0.0104

Mercury -93240-01-23 07:54 J -32334464.29 -32334464.17 -32334464.04 0.2733 0.0533

Mercury -93237-08-01 23:44 J -32333177.63 -32333177.51 -32333177.40 0.2607 0.1325

Mercury -93227-01-26 06:27 J -32329713.31 -32329713.23 -32329713.15 0.2730 0.2119

Mercury -93220-01-18 17:15 J -32327163.85 -32327163.78 -32327163.71 0.2740 0.2244

Mercury -93217-07-28 08:37 J -32325877.26 -32325877.14 -32325877.02 0.2601 0.1218

Mercury -93207-01-21 15:06 J -32322412.99 -32322412.87 -32322412.75 0.2737 0.0722

Mercury -93204-07-31 06:56 J -32321126.34 -32321126.21 -32321126.08 0.2604 0.0217

Mercury -93194-01-24 13:25 J -32317662.06 -32317661.94 -32317661.82 0.2733 0.0843

Mercury -93191-08-03 05:01 J -32316375.39 -32316375.29 -32316375.19 0.2608 0.1615

Mercury -93184-07-26 15:35 J -32313825.90 -32313825.85 -32313825.80 0.2599 0.2367

Mercury -93181-01-27 11:59 J -32312911.06 -32312911.00 -32312910.95 0.2729 0.2445

Mercury -93174-01-19 22:32 J -32310361.64 -32310361.56 -32310361.47 0.2739 0.1933

Venus -93172-08-11 16:03 J -32309426.94 -32309426.83 -32309426.73 0.2620 0.1914

Mercury -93171-07-29 14:08 J -32309075.04 -32309074.91 -32309074.79 0.2602 0.0910

Venus -93164-08-09 08:51 J -32306507.25 -32306507.13 -32306507.02 0.2616 0.1791

Mercury -93161-01-22 20:37 J -32305610.76 -32305610.64 -32305610.52 0.2736 0.0406

Mercury -93158-08-01 12:27 J -32304324.11 -32304323.98 -32304323.85 0.2605 0.0520

Mercury -93148-01-24 18:56 J -32300859.83 -32300859.71 -32300859.60 0.2732 0.1169

Mercury -93145-08-03 10:32 J -32299573.15 -32299573.06 -32299572.97 0.2608 0.1915

Mercury -93138-07-27 21:06 J -32297023.70 -32297023.62 -32297023.54 0.2599 0.2056

Mercury -93128-01-20 04:03 J -32293559.43 -32293559.33 -32293559.24 0.2739 0.1628

Mercury -93125-07-29 19:39 J -32292272.81 -32292272.68 -32292272.55 0.2602 0.0596

Mercury -93115-01-23 01:54 J -32288808.54 -32288808.42 -32288808.29 0.2736 0.0118

Mercury -93112-08-01 17:59 J -32287521.88 -32287521.75 -32287521.63 0.2605 0.0828

Mercury -93102-01-26 00:13 J -32284057.59 -32284057.49 -32284057.38 0.2732 0.1490

Mercury -93099-08-04 15:49 J -32282770.90 -32282770.84 -32282770.77 0.2609 0.2207

Mercury -93092-07-28 02:37 J -32280221.49 -32280221.39 -32280221.29 0.2599 0.1744

Mercury -93082-01-21 09:20 J -32276757.22 -32276757.11 -32276757.00 0.2739 0.1312

Mercury -93079-07-31 01:11 J -32275470.59 -32275470.45 -32275470.32 0.2603 0.0303

Mercury -93069-01-24 07:25 J -32272006.32 -32272006.19 -32272006.07 0.2735 0.0231

Mercury -93066-08-02 23:15 J -32270719.64 -32270719.53 -32270719.41 0.2606 0.1128

Mercury -93056-01-26 05:44 J -32267255.36 -32267255.26 -32267255.17 0.2731 0.1814

Mercury -93053-08-04 21:20 J -32265968.64 -32265968.61 -32265968.58 0.2609 0.2507

Mercury -93049-01-19 16:47 J -32264705.84 -32264705.80 -32264705.75 0.2741 0.2516

Mercury -93046-07-29 08:08 J -32263419.27 -32263419.16 -32263419.05 0.2600 0.1436

Mercury -93036-01-21 14:37 J -32259955.00 -32259954.89 -32259954.77 0.2738 0.1004

Mercury -93033-07-31 06:27 J -32258668.36 -32258668.23 -32258668.09 0.2603 0.0087

Mercury -93023-01-24 12:42 J -32255204.09 -32255203.97 -32255203.84 0.2735 0.0562

Mercury -93020-08-03 04:47 J -32253917.41 -32253917.30 -32253917.19 0.2606 0.1422

Venus -93018-02-02 11:01 J -32253369.19 -32253369.04 -32253368.89 0.2722 0.0654

Mercury -93010-01-27 11:01 J -32250453.11 -32250453.04 -32250452.96 0.2731 0.2141

Mercury -93003-01-19 22:03 J -32247903.65 -32247903.58 -32247903.50 0.2741 0.2211

93RD MILLENNIUM BCE

This is a list of transits visible from Earth in the 93rd millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-93000-07-29 13:39 J	-32246617.05	-32246616.93	-32246616.81	0.2600	0.1127		
Mercury	-92990-01-22 20:08 J	-32243152.78	-32243152.66	-32243152.54	0.2737	0.0691		
Mercury	-92987-08-01 11:59 J	-32241866.13	-32241866.00	-32241865.87	0.2603	0.0315		
Mercury	-92977-01-25 18:13 J	-32238401.86	-32238401.74	-32238401.62	0.2734	0.0870		
Mercury	-92974-08-04 10:18 J	-32237115.17	-32237115.07	-32237114.98	0.2607	0.1723		
Mercury	-92967-07-27 20:23 J	-32234565.71	-32234565.65	-32234565.58	0.2598	0.2289		
Mercury	-92964-01-27 16:32 J	-32233650.86	-32233650.81	-32233650.76	0.2730	0.2471		
Mercury	-92957-01-21 03:35 J	-32231101.44	-32231101.35	-32231101.26	0.2741	0.1903		
Mercury	-92954-07-30 19:11 J	-32229814.83	-32229814.70	-32229814.58	0.2601	0.0816		
Mercury	-92944-01-23 01:25 J	-32226350.56	-32226350.44	-32226350.31	0.2737	0.0376		
Mercury	-92941-08-01 17:30 J	-32225063.90	-32225063.77	-32225063.64	0.2604	0.0621		
Mercury	-92931-01-25 23:44 J	-32221599.63	-32221599.51	-32221599.40	0.2733	0.1197		
Venus	-92929-08-11 18:42 J	-32220670.82	-32220670.72	-32220670.63	0.2617	0.2061		
Mercury	-92928-08-04 15:35 J	-32220312.93	-32220312.85	-32220312.77	0.2607	0.2017		
Mercury	-92921-07-28 01:54 J	-32217763.50	-32217763.42	-32217763.33	0.2598	0.1975		
Venus	-92921-08-09 11:44 J	-32217751.14	-32217751.01	-32217750.89	0.2614	0.1616		
Mercury	-92911-01-21 08:51 J	-32214299.23	-32214299.13	-32214299.03	0.2740	0.1593		
Mercury	-92908-07-31 00:42 J	-32213012.60	-32213012.47	-32213012.34	0.2601	0.0514		
Mercury	-92898-01-24 06:56 J	-32209548.34	-32209548.21	-32209548.09	0.2737	0.0102		

Mercury -92895-08-02 23:01 J -32208261.66 -32208261.54 -32208261.42 0.2604 0.0921

Mercury -92885-01-27 05:01 J -32204797.39 -32204797.29 -32204797.19 0.2733 0.1514

Mercury -92882-08-05 21:06 J -32203510.68 -32203510.62 -32203510.56 0.2608 0.2318

Mercury -92875-07-29 07:39 J -32200961.29 -32200961.18 -32200961.08 0.2599 0.1661

Mercury -92865-01-22 14:08 J -32197497.02 -32197496.91 -32197496.80 0.2740 0.1289

Mercury -92862-08-01 06:13 J -32196210.38 -32196210.24 -32196210.11 0.2602 0.0214

Mercury -92852-01-24 12:13 J -32192746.12 -32192745.99 -32192745.87 0.2736 0.0258

Mercury -92849-08-03 04:18 J -32191459.43 -32191459.32 -32191459.20 0.2605 0.1224

Mercury -92839-01-27 10:32 J -32187995.16 -32187995.06 -32187994.97 0.2732 0.1838

Mercury -92832-01-19 21:49 J -32185445.64 -32185445.59 -32185445.54 0.2742 0.2482

Mercury -92829-07-29 13:11 J -32184159.07 -32184158.95 -32184158.84 0.2599 0.1347

Mercury -92819-01-22 19:39 J -32180694.80 -32180694.68 -32180694.57 0.2739 0.0975

Mercury -92816-08-01 11:30 J -32179408.15 -32179408.02 -32179407.88 0.2602 0.0124

Mercury -92806-01-25 17:30 J -32175943.89 -32175943.77 -32175943.64 0.2735 0.0573

Mercury -92803-08-04 09:49 J -32174657.19 -32174657.09 -32174656.98 0.2605 0.1522

Mercury -92796-07-27 19:54 J -32172107.70 -32172107.67 -32172107.64 0.2597 0.2517

Mercury -92793-01-28 15:49 J -32171192.91 -32171192.84 -32171192.76 0.2732 0.2162

Mercury -92786-01-21 03:06 J -32168643.44 -32168643.37 -32168643.29 0.2742 0.2174

Mercury -92783-07-30 18:42 J -32167356.85 -32167356.72 -32167356.60 0.2600 0.1035

Venus -92775-02-02 10:03 J -32164613.24 -32164613.08 -32164612.93 0.2724 0.0272

Mercury -92773-01-24 00:56 J -32163892.58 -32163892.46 -32163892.34 0.2739 0.0661

Mercury -92770-08-02 17:01 J -32162605.92 -32162605.79 -32162605.66 0.2603 0.0420

Mercury -92760-01-25 23:01 J -32159141.66 -32159141.54 -32159141.42 0.2735 0.0896

Mercury -92757-08-04 15:20 J -32157854.95 -32157854.86 -32157854.77 0.2606 0.1824

Mercury -92750-07-29 01:25 J -32155305.51 -32155305.44 -32155305.37 0.2597 0.2200

Mercury -92747-01-28 21:20 J -32154390.66 -32154390.61 -32154390.56 0.2731 0.2485

Mercury -92740-01-21 08:23 J -32151841.23 -32151841.15 -32151841.06 0.2741 0.1873

Mercury -92737-07-31 00:13 J -32150554.62 -32150554.49 -32150554.37 0.2600 0.0729

Mercury -92727-01-24 06:27 J -32147090.36 -32147090.23 -32147090.11 0.2738 0.0358

Mercury -92724-08-02 22:32 J -32145803.69 -32145803.56 -32145803.43 0.2603 0.0717

Mercury -92714-01-27 04:32 J -32142339.43 -32142339.31 -32142339.20 0.2735 0.1222

Mercury -92711-08-05 20:51 J -32141052.71 -32141052.63 -32141052.56 0.2606 0.2127

Mercury -92704-07-29 06:56 J -32138503.30 -32138503.21 -32138503.12 0.2597 0.1887

Mercury -92694-01-22 13:54 J -32135039.02 -32135038.92 -32135038.82 0.2741 0.1566

Mercury -92691-08-01 05:44 J -32133752.40 -32133752.26 -32133752.13 0.2600 0.0422

Venus -92686-08-12 21:49 J -32131914.67 -32131914.59 -32131914.52 0.2615 0.2284

Mercury -92681-01-25 11:44 J -32130288.14 -32130288.01 -32130287.89 0.2738 0.0047

Mercury -92678-08-04 04:03 J -32129001.45 -32129001.33 -32129001.21 0.2603 0.1024

Venus -92678-08-10 14:37 J -32128995.03 -32128994.89 -32128994.76 0.2612 0.1421

Mercury -92668-01-27 09:49 J -32125537.19 -32125537.09 -32125536.99 0.2734 0.1542

Mercury -92665-08-06 02:08 J -32124250.45 -32124250.41 -32124250.36 0.2607 0.2423

Mercury -92658-07-30 12:27 J -32121701.09 -32121700.98 -32121700.87 0.2598 0.1573

Mercury -92648-01-22 19:11 J -32118236.81 -32118236.70 -32118236.59 0.2740 0.1253

Mercury -92645-08-01 11:01 J -32116950.17 -32116950.04 -32116949.90 0.2601 0.0124

Mercury -92635-01-25 17:01 J -32113485.91 -32113485.79 -32113485.66 0.2737 0.0286

Mercury -92632-08-04 09:35 J -32112199.22 -32112199.10 -32112198.99 0.2604 0.1325

Mercury -92622-01-28 15:20 J -32108734.96 -32108734.86 -32108734.77 0.2733 0.1864

Mercury -92615-01-21 02:51 J -32106185.43 -32106185.38 -32106185.33 0.2743 0.2448

Mercury -92612-07-30 17:59 J -32104898.87 -32104898.75 -32104898.63 0.2598 0.1259

Mercury -92602-01-24 00:27 J -32101434.59 -32101434.48 -32101434.36 0.2740 0.0945

Mercury -92599-08-02 16:32 J -32100147.94 -32100147.81 -32100147.67 0.2601 0.0211

Mercury -92589-01-26 22:32 J -32096683.69 -32096683.56 -32096683.44 0.2737 0.0607

Mercury -92586-08-05 14:51 J -32095396.98 -32095396.88 -32095396.77 0.2604 0.1626

Mercury -92579-07-29 00:42 J -32092847.51 -32092847.47 -32092847.42 0.2596 0.2434

Mercury -92576-01-28 20:37 J -32091932.71 -32091932.64 -32091932.57 0.2733 0.2186

Mercury -92569-01-22 08:08 J -32089383.24 -32089383.16 -32089383.09 0.2743 0.2151

Mercury -92566-07-31 23:30 J -32088096.64 -32088096.52 -32088096.39 0.2599 0.0947

Mercury -92556-01-24 05:44 J -32084632.38 -32084632.26 -32084632.14 0.2739 0.0640

Mercury -92553-08-02 22:03 J -32083345.71 -32083345.58 -32083345.45 0.2602 0.0508

Mercury -92543-01-27 03:49 J -32079881.46 -32079881.34 -32079881.22 0.2736 0.0921

Mercury -92540-08-05 20:23 J -32078594.74 -32078594.65 -32078594.56 0.2605 0.1927

Mercury -92533-07-29 06:13 J -32076045.31 -32076045.24 -32076045.16 0.2596 0.2120

Venus -92532-02-02 08:51 J -32075857.29 -32075857.13 -32075856.97 0.2727 0.0159

Mercury -92530-01-30 02:08 J -32075130.46 -32075130.41 -32075130.37 0.2733 0.2511

Mercury -92523-01-22 13:25 J -32072581.03 -32072580.94 -32072580.85 0.2742 0.1843

Mercury -92520-08-01 05:01 J -32071294.42 -32071294.29 -32071294.16 0.2599 0.0635

Mercury -92510-01-25 11:15 J -32067830.16 -32067830.03 -32067829.91 0.2739 0.0331

Mercury -92507-08-04 03:35 J -32066543.48 -32066543.35 -32066543.22 0.2602 0.0816

Mercury -92497-01-28 09:06 J -32063079.23 -32063079.12 -32063079.00 0.2735 0.1243

Mercury -92494-08-07 01:54 J -32061792.49 -32061792.42 -32061792.36 0.2605 0.2229

Mercury -92487-07-30 11:44 J -32059243.10 -32059243.01 -32059242.91 0.2597 0.1802

Mercury -92477-01-23 18:42 J -32055778.82 -32055778.72 -32055778.61 0.2742 0.1533

Mercury -92474-08-02 10:32 J -32054492.19 -32054492.06 -32054491.93 0.2600 0.0325

Mercury -92464-01-25 16:32 J -32051027.93 -32051027.81 -32051027.68 0.2739 0.0038

Mercury -92461-08-04 09:06 J -32049741.24 -32049741.12 -32049741.00 0.2603 0.1122

Mercury -92451-01-28 14:37 J -32046276.99 -32046276.89 -32046276.79 0.2735 0.1558

Mercury -92448-08-07 07:25 J -32044990.22 -32044990.19 -32044990.17 0.2606 0.2532

Mercury -92444-01-21 02:37 J -32043727.41 -32043727.39 -32043727.38 0.2744 0.2719

Venus -92443-08-13 00:27 J -32043158.54 -32043158.48 -32043158.43 0.2613 0.2429

Mercury -92441-07-30 17:30 J -32042440.88 -32042440.77 -32042440.66 0.2597 0.1484

Venus -92435-08-10 17:30 J -32040238.91 -32040238.77 -32040238.63 0.2610 0.1234

Mercury -92431-01-24 00:13 J -32038976.60 -32038976.49 -32038976.38 0.2741 0.1222

Mercury -92428-08-02 16:03 J -32037689.96 -32037689.83 -32037689.69 0.2600 0.0058

Mercury -92418-01-26 22:03 J -32034225.71 -32034225.58 -32034225.46 0.2738 0.0323

Mercury -92415-08-05 14:37 J -32032939.00 -32032938.89 -32032938.78 0.2603 0.1429

Mercury -92405-01-29 20:08 J -32029474.75 -32029474.66 -32029474.58 0.2735 0.1890

Mercury -92398-01-22 07:54 J -32026925.23 -32026925.17 -32026925.12 0.2744 0.2420

Mercury -92395-07-31 23:01 J -32025638.66 -32025638.54 -32025638.42 0.2597 0.1172

Mercury -92385-01-25 05:30 J -32022174.39 -32022174.27 -32022174.16 0.2741 0.0916

Mercury -92382-08-03 21:35 J -32020887.73 -32020887.60 -32020887.47 0.2600 0.0300

Mercury -92372-01-27 03:20 J -32017423.48 -32017423.36 -32017423.24 0.2738 0.0632

Mercury -92369-08-05 20:08 J -32016136.76 -32016136.66 -32016136.57 0.2604 0.1735

Mercury -92362-07-30 05:30 J -32013587.32 -32013587.27 -32013587.22 0.2595 0.2359

Mercury -92359-01-30 01:25 J -32012672.51 -32012672.44 -32012672.37 0.2734 0.2210

Mercury -92352-01-22 13:11 J -32010123.03 -32010122.95 -32010122.88 0.2743 0.2118

Mercury -92349-08-01 04:32 J -32008836.44 -32008836.31 -32008836.19 0.2598 0.0860

Mercury -92339-01-25 10:47 J -32005372.17 -32005372.05 -32005371.93 0.2740 0.0606

Mercury -92336-08-04 03:06 J -32004085.50 -32004085.37 -32004085.24 0.2601 0.0607

Mercury -92326-01-28 08:37 J -32000621.26 -32000621.14 -32000621.02 0.2737 0.0944

Mercury -92323-08-07 01:25 J -31999334.52 -31999334.44 -31999334.36 0.2604 0.2035

Mercury -92316-07-30 11:01 J -31996785.12 -31996785.04 -31996784.95 0.2595 0.2035

Mercury -92313-01-31 06:42 J -31995870.26 -31995870.22 -31995870.17 0.2733 0.2535

Mercury -92306-01-23 18:27 J -31993320.82 -31993320.73 -31993320.64 0.2743 0.1809

Mercury -92303-08-02 10:03 J -31992034.22 -31992034.08 -31992033.95 0.2598 0.0552

Mercury -92293-01-26 16:03 J -31988569.95 -31988569.83 -31988569.70 0.2740 0.0299

Mercury -92290-08-05 08:37 J -31987283.27 -31987283.14 -31987283.02 0.2601 0.0913

Venus -92289-02-03 07:54 J -31987101.33 -31987101.17 -31987101.02 0.2729 0.0576

Mercury -92280-01-28 13:54 J -31983819.03 -31983818.92 -31983818.80 0.2737 0.1266

Mercury -92277-08-07 06:56 J -31982532.26 -31982532.21 -31982532.15 0.2604 0.2335

Mercury -92270-07-31 16:47 J -31979982.90 -31979982.80 -31979982.70 0.2596 0.1718

Mercury -92260-01-23 23:44 J -31976518.61 -31976518.51 -31976518.41 0.2743 0.1503

Mercury -92257-08-02 15:35 J -31975231.99 -31975231.85 -31975231.72 0.2599 0.0231

Mercury -92247-01-26 21:35 J -31971767.73 -31971767.60 -31971767.48 0.2739 0.0104

Mercury -92244-08-05 14:08 J -31970481.03 -31970480.91 -31970480.80 0.2602 0.1223

Mercury -92234-01-29 19:25 J -31967016.79 -31967016.69 -31967016.59 0.2736 0.1586

Mercury -92227-01-22 07:39 J -31964467.21 -31964467.18 -31964467.16 0.2745 0.2689

Mercury -92224-07-31 22:18 J -31963180.68 -31963180.57 -31963180.46 0.2596 0.1396

Mercury -92214-01-25 05:01 J -31959716.40 -31959716.29 -31959716.18 0.2742 0.1200

Mercury -92211-08-03 21:06 J -31958429.76 -31958429.62 -31958429.49 0.2599 0.0099

Mercury -92201-01-28 02:51 J -31954965.51 -31954965.38 -31954965.26 0.2739 0.0338

Mercury -92198-08-06 19:39 J -31953678.79 -31953678.68 -31953678.58 0.2602 0.1532

Venus -92192-08-10 20:23 J -31951482.80 -31951482.65 -31951482.50 0.2608 0.1042

Mercury -92188-01-30 00:42 J -31950214.55 -31950214.47 -31950214.38 0.2736 0.1909

Mercury -92181-01-23 12:56 J -31947665.02 -31947664.96 -31947664.90 0.2745 0.2386

Mercury -92178-08-02 03:49 J -31946378.46 -31946378.34 -31946378.22 0.2597 0.1081

Mercury -92168-01-25 10:18 J -31942914.18 -31942914.07 -31942913.95 0.2742 0.0890

Mercury -92165-08-04 02:37 J -31941627.52 -31941627.39 -31941627.26 0.2600 0.0399

Mercury -92155-01-28 08:08 J -31938163.28 -31938163.16 -31938163.04 0.2739 0.0650

Mercury -92152-08-07 01:11 J -31936876.55 -31936876.45 -31936876.36 0.2603 0.1838

Mercury -92145-07-30 10:18 J -31934327.13 -31934327.07 -31934327.00 0.2594 0.2268

Mercury -92142-01-31 06:13 J -31933412.31 -31933412.24 -31933412.17 0.2735 0.2226

Mercury -92135-01-23 18:13 J -31930862.82 -31930862.74 -31930862.66 0.2744 0.2080

Mercury -92132-08-02 09:20 J -31929576.24 -31929576.11 -31929575.98 0.2597 0.0764

Mercury -92122-01-26 15:49 J -31926111.96 -31926111.84 -31926111.72 0.2741 0.0576

Mercury -92119-08-05 08:08 J -31924825.29 -31924825.16 -31924825.03 0.2600 0.0707

Mercury -92109-01-29 13:25 J -31921361.05 -31921360.94 -31921360.82 0.2738 0.0974

Mercury -92106-08-08 06:27 J -31920074.30 -31920074.23 -31920074.15 0.2603 0.2140

Mercury -92099-07-31 15:49 J -31917524.92 -31917524.84 -31917524.75 0.2595 0.1954

Mercury -92096-01-31 11:30 J -31916610.06 -31916610.02 -31916609.97 0.2735 0.2550

Mercury -92089-01-24 23:30 J -31914060.61 -31914060.52 -31914060.43 0.2744 0.1780

Mercury -92086-08-03 14:51 J -31912774.01 -31912773.88 -31912773.75 0.2598 0.0448

Mercury -92076-01-26 21:06 J -31909309.75 -31909309.62 -31909309.50 0.2741 0.0267

Mercury -92073-08-05 13:39 J -31908023.06 -31908022.93 -31908022.81 0.2600 0.1019

Mercury -92063-01-29 18:56 J -31904558.82 -31904558.71 -31904558.60 0.2737 0.1290

Mercury -92060-08-08 11:59 J -31903272.04 -31903272.00 -31903271.96 0.2604 0.2439

Mercury -92053-07-31 21:35 J -31900722.71 -31900722.60 -31900722.50 0.2595 0.1632

Venus -92046-02-03 06:27 J -31898345.38 -31898345.23 -31898345.09 0.2732 0.1037

Mercury -92043-01-25 04:47 J -31897258.40 -31897258.30 -31897258.20 0.2743 0.1477

Mercury -92040-08-03 20:23 J -31895971.78 -31895971.65 -31895971.51 0.2598 0.0138

Mercury -92030-01-28 02:23 J -31892507.52 -31892507.40 -31892507.28 0.2740 0.0046

Mercury -92027-08-06 19:11 J -31891220.82 -31891220.70 -31891220.59 0.2601 0.1326

Mercury -92017-01-31 00:13 J -31887756.59 -31887756.49 -31887756.39 0.2737 0.1611

Mercury -92010-01-23 12:42 J -31885207.00 -31885206.97 -31885206.95 0.2746 0.2658

Mercury -92007-08-02 03:06 J -31883920.49 -31883920.37 -31883920.26 0.2596 0.1316

92ND MILLENNIUM BCE

This is a list of transits visible from Earth in the 92nd millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-91997-01-26 10:03 J	-31880456.19	-31880456.08	-31880455.97	0.2743	0.1169		
Mercury	-91994-08-05 01:54 J	-31879169.55	-31879169.42	-31879169.28	0.2598	0.0187		
Mercury	-91984-01-28 07:39 J	-31875705.30	-31875705.18	-31875705.06	0.2740	0.0364		
Mercury	-91981-08-07 00:27 J	-31874418.58	-31874418.48	-31874418.37	0.2601	0.1631		
Mercury	-91974-07-31 09:35 J	-31871869.13	-31871869.10	-31871869.07	0.2593	0.2508		
Mercury	-91971-01-31 05:44 J	-31870954.35	-31870954.26	-31870954.18	0.2736	0.1927		
Mercury	-91964-01-23 17:59 J	-31868404.81	-31868404.75	-31868404.69	0.2746	0.2357		
Mercury	-91961-08-02 08:37 J	-31867118.26	-31867118.14	-31867118.01	0.2596	0.0990		
Mercury	-91951-01-26 15:20 J	-31863653.98	-31863653.86	-31863653.74	0.2742	0.0858		
Venus	-91949-08-10 23:01 J	-31862726.69	-31862726.54	-31862726.39	0.2606	0.0872		
Mercury	-91948-08-05 07:25 J	-31862367.32	-31862367.19	-31862367.06	0.2599	0.0489		
Mercury	-91938-01-29 13:11 J	-31858903.07	-31858902.95	-31858902.83	0.2739	0.0683		
Mercury	-91935-08-08 05:59 J	-31857616.34	-31857616.25	-31857616.16	0.2602	0.1935		
Mercury	-91928-07-31 15:06 J	-31855066.94	-31855066.87	-31855066.80	0.2594	0.2187		
Mercury	-91925-02-01 11:01 J	-31854152.11	-31854152.04	-31854151.97	0.2736	0.2249		

Mercury -91918-01-24 23:15 J -31851602.61 -31851602.53 -31851602.45 0.2745 0.2056

Mercury -91915-08-03 14:08 J -31850316.04 -31850315.91 -31850315.77 0.2596 0.0676

Mercury -91905-01-27 20:37 J -31846851.76 -31846851.64 -31846851.52 0.2742 0.0551

Mercury -91902-08-06 12:56 J -31845565.08 -31845564.96 -31845564.83 0.2599 0.0809

Mercury -91892-01-29 18:27 J -31842100.85 -31842100.73 -31842100.62 0.2739 0.0995

Mercury -91889-08-08 11:30 J -31840814.08 -31840814.02 -31840813.95 0.2602 0.2240

Mercury -91882-08-01 20:51 J -31838264.73 -31838264.63 -31838264.54 0.2594 0.1866

Mercury -91879-02-01 16:18 J -31837349.86 -31837349.82 -31837349.78 0.2735 0.2574

Mercury -91872-01-25 04:32 J -31834800.41 -31834800.31 -31834800.22 0.2745 0.1749

Mercury -91869-08-03 19:39 J -31833513.81 -31833513.68 -31833513.54 0.2597 0.0366

Mercury -91859-01-28 01:54 J -31830049.54 -31830049.42 -31830049.29 0.2742 0.0257

Mercury -91856-08-06 18:27 J -31828762.85 -31828762.73 -31828762.61 0.2600 0.1115

Mercury -91846-01-30 23:44 J -31825298.62 -31825298.51 -31825298.40 0.2738 0.1310

Mercury -91843-08-09 17:01 J -31824011.81 -31824011.79 -31824011.77 0.2603 0.2550

Mercury -91836-08-02 02:23 J -31821462.51 -31821462.40 -31821462.30 0.2594 0.1547

Mercury -91826-01-26 09:49 J -31817998.20 -31817998.09 -31817997.99 0.2744 0.1446

Mercury -91823-08-05 01:25 J -31816711.58 -31816711.44 -31816711.31 0.2597 0.0093

Mercury -91813-01-29 07:25 J -31813247.32 -31813247.19 -31813247.07 0.2741 0.0106

Mercury -91810-08-07 23:59 J -31811960.61 -31811960.50 -31811960.39 0.2600 0.1425

Venus -91803-02-03 05:15 J -31809589.41 -31809589.28 -31809589.14 0.2734 0.1469

Mercury -91800-01-31 05:01 J -31808496.38 -31808496.29 -31808496.19 0.2738 0.1631

Mercury -91793-01-24 17:44 J -31805946.79 -31805946.76 -31805946.73 0.2747 0.2627

Mercury -91790-08-03 07:54 J -31804660.29 -31804660.17 -31804660.05 0.2595 0.1220

Mercury -91780-01-26 15:06 J -31801195.98 -31801195.87 -31801195.76 0.2744 0.1135

Mercury -91777-08-05 06:56 J -31799909.35 -31799909.21 -31799909.08 0.2598 0.0286

Mercury -91767-01-29 12:42 J -31796445.09 -31796444.97 -31796444.85 0.2741 0.0389

Mercury -91764-08-08 05:30 J -31795158.37 -31795158.27 -31795158.17 0.2601 0.1731

Mercury -91757-07-31 14:08 J -31792608.95 -31792608.91 -31792608.86 0.2593 0.2434

Mercury -91754-02-01 10:32 J -31791694.15 -31791694.06 -31791693.98 0.2737 0.1953

Mercury -91747-01-24 23:01 J -31789144.60 -31789144.54 -31789144.48 0.2746 0.2324

Mercury -91744-08-03 13:25 J -31787858.06 -31787857.94 -31787857.81 0.2595 0.0905

Mercury -91734-01-27 20:23 J -31784393.77 -31784393.65 -31784393.53 0.2743 0.0830

Mercury -91731-08-06 12:27 J -31783107.11 -31783106.98 -31783106.85 0.2598 0.0593

Mercury -91721-01-30 17:59 J -31779642.87 -31779642.75 -31779642.63 0.2740 0.0705

Mercury -91718-08-09 11:01 J -31778356.12 -31778356.04 -31778355.96 0.2601 0.2043

Mercury -91711-08-01 19:54 J -31775806.75 -31775806.67 -31775806.59 0.2593 0.2107

Mercury -91708-02-01 15:49 J -31774891.90 -31774891.84 -31774891.77 0.2737 0.2275

Venus -91706-08-12 02:08 J -31773970.57 -31773970.41 -31773970.26 0.2604 0.0653

Mercury -91701-01-26 04:18 J -31772342.40 -31772342.32 -31772342.24 0.2746 0.2022

Mercury -91698-08-04 18:56 J -31771055.84 -31771055.71 -31771055.57 0.2596 0.0587

Mercury -91688-01-28 01:39 J -31767591.55 -31767591.43 -31767591.31 0.2743 0.0522

Mercury -91685-08-06 17:59 J -31766304.88 -31766304.75 -31766304.63 0.2598 0.0902

Mercury -91675-01-30 23:15 J -31762840.64 -31762840.53 -31762840.41 0.2740 0.1021

Mercury -91672-08-09 16:32 J -31761553.86 -31761553.81 -31761553.76 0.2601 0.2351

Mercury -91665-08-02 01:25 J -31759004.54 -31759004.44 -31759004.34 0.2593 0.1783

Mercury -91662-02-02 21:06 J -31758089.65 -31758089.62 -31758089.58 0.2736 0.2597

Mercury -91655-01-26 09:35 J -31755540.20 -31755540.10 -31755540.01 0.2745 0.1722

Mercury -91652-08-05 00:42 J -31754253.61 -31754253.47 -31754253.34 0.2596 0.0282

Mercury -91642-01-29 06:56 J -31750789.33 -31750789.21 -31750789.09 0.2742 0.0214

Mercury -91639-08-07 23:30 J -31749502.64 -31749502.52 -31749502.40 0.2599 0.1215

Mercury -91629-02-01 04:32 J -31746038.41 -31746038.31 -31746038.20 0.2739 0.1339

Mercury -91619-08-03 07:11 J -31742202.31 -31742202.20 -31742202.09 0.2594 0.1456

Mercury -91609-01-27 14:51 J -31738737.99 -31738737.88 -31738737.78 0.2745 0.1416

Mercury -91606-08-06 06:13 J -31737451.38 -31737451.24 -31737451.11 0.2596 0.0082

Mercury -91596-01-29 12:13 J -31733987.11 -31733986.99 -31733986.86 0.2742 0.0119

Mercury -91593-08-08 05:01 J -31732700.40 -31732700.29 -31732700.19 0.2599 0.1524

Mercury -91583-02-01 10:03 J -31729236.18 -31729236.08 -31729235.98 0.2739 0.1651

Mercury -91576-01-24 22:47 J -31726686.58 -31726686.55 -31726686.51 0.2747 0.2590

Mercury -91573-08-03 12:42 J -31725400.09 -31725399.97 -31725399.85 0.2594 0.1134

Venus -91568-02-05 14:23 J -31723752.94 -31723752.90 -31723752.87 0.2733 0.2659

Mercury -91563-01-27 20:08 J -31721935.77 -31721935.66 -31721935.55 0.2745 0.1107

Venus -91560-02-03 03:49 J -31720833.45 -31720833.34 -31720833.23 0.2736 0.1953

Mercury -91560-08-06 11:44 J -31720649.14 -31720649.01 -31720648.88 0.2597 0.0373

Mercury -91550-01-30 17:30 J -31717184.89 -31717184.77 -31717184.64 0.2742 0.0424

Mercury -91547-08-09 10:32 J -31715898.15 -31715898.06 -31715897.97 0.2600 0.1842

Mercury -91540-08-01 18:56 J -31713348.76 -31713348.71 -31713348.65 0.2592 0.2349

Mercury -91537-02-02 15:20 J -31712433.94 -31712433.86 -31712433.77 0.2738 0.1973

Mercury -91530-01-26 04:03 J -31709884.39 -31709884.33 -31709884.26 0.2747 0.2291

Mercury -91527-08-04 18:13 J -31708597.87 -31708597.74 -31708597.61 0.2594 0.0812

Mercury -91517-01-29 01:25 J -31705133.56 -31705133.44 -31705133.32 0.2744 0.0797

Mercury -91514-08-07 17:15 J -31703846.91 -31703846.78 -31703846.65 0.2597 0.0688

Mercury -91504-01-30 23:01 J -31700382.66 -31700382.54 -31700382.42 0.2741 0.0732

Mercury -91501-08-09 16:03 J -31699095.90 -31699095.83 -31699095.76 0.2600 0.2150

Mercury -91494-08-03 00:42 J -31696546.56 -31696546.47 -31696546.39 0.2592 0.2025

Mercury -91491-02-02 20:37 J -31695631.70 -31695631.64 -31695631.57 0.2738 0.2296

Mercury -91484-01-26 09:20 J -31693082.19 -31693082.11 -31693082.03 0.2746 0.1988

Mercury -91481-08-04 23:44 J -31691795.64 -31691795.51 -31691795.37 0.2595 0.0497

Mercury -91471-01-29 06:42 J -31688331.34 -31688331.22 -31688331.10 0.2744 0.0491

Mercury -91468-08-07 22:47 J -31687044.67 -31687044.55 -31687044.42 0.2598 0.1007

Venus -91463-08-12 04:47 J -31685214.45 -31685214.30 -31685214.14 0.2602 0.0481

Mercury -91458-02-01 04:18 J -31683580.43 -31683580.32 -31683580.21 0.2741 0.1049

Mercury -91455-08-10 21:35 J -31682293.64 -31682293.60 -31682293.56 0.2601 0.2460

Mercury -91448-08-03 06:13 J -31679744.34 -31679744.24 -31679744.14 0.2593 0.1694

Mercury -91445-02-04 02:08 J -31678829.44 -31678829.41 -31678829.38 0.2737 0.2618

Mercury -91438-01-27 14:37 J -31676279.98 -31676279.89 -31676279.79 0.2746 0.1686

Mercury -91435-08-06 05:30 J -31674993.41 -31674993.27 -31674993.14 0.2595 0.0179

Mercury -91425-01-30 11:59 J -31671529.12 -31671529.00 -31671528.88 0.2743 0.0181

Mercury -91422-08-09 04:18 J -31670242.43 -31670242.32 -31670242.20 0.2598 0.1317

Mercury -91412-02-01 09:35 J -31666778.21 -31666778.10 -31666777.99 0.2740 0.1360

Mercury -91402-08-04 11:44 J -31662942.12 -31662942.01 -31662941.89 0.2593 0.1372

Mercury -91392-01-27 19:54 J -31659477.77 -31659477.67 -31659477.57 0.2746 0.1381

Mercury -91389-08-06 11:01 J -31658191.18 -31658191.04 -31658190.90 0.2596 0.0150

Mercury -91379-01-30 17:15 J -31654726.90 -31654726.78 -31654726.66 0.2743 0.0132

Mercury -91376-08-09 09:49 J -31653440.19 -31653440.09 -31653439.98 0.2598 0.1635

Mercury -91366-02-02 14:51 J -31649975.97 -31649975.88 -31649975.78 0.2740 0.1682

Mercury -91359-01-26 03:49 J -31647426.38 -31647426.34 -31647426.29 0.2748 0.2562

Mercury -91356-08-04 17:30 J -31646139.90 -31646139.77 -31646139.65 0.2593 0.1046

Mercury -91346-01-29 01:11 J -31642675.56 -31642675.45 -31642675.34 0.2745 0.1078

Mercury -91343-08-07 16:32 J -31641388.94 -31641388.81 -31641388.68 0.2596 0.0468

Mercury -91333-01-31 22:32 J -31637924.68 -31637924.56 -31637924.44 0.2742 0.0447

Mercury -91330-08-10 15:20 J -31636637.94 -31636637.86 -31636637.77 0.2599 0.1944

Venus -91325-02-06 13:11 J -31634997.04 -31634996.95 -31634996.86 0.2736 0.2218

Mercury -91323-08-02 23:44 J -31634088.58 -31634088.51 -31634088.45 0.2591 0.2268

Mercury -91320-02-02 20:23 J -31633173.74 -31633173.65 -31633173.57 0.2739 0.1998

Venus -91317-02-04 02:51 J -31632077.45 -31632077.38 -31632077.30 0.2739 0.2377

Mercury -91313-01-27 09:06 J -31630624.18 -31630624.12 -31630624.05 0.2748 0.2261

Mercury -91310-08-05 23:01 J -31629337.67 -31629337.54 -31629337.41 0.2594 0.0720

Mercury -91300-01-29 06:27 J -31625873.35 -31625873.23 -31625873.11 0.2745 0.0774

Mercury -91297-08-07 22:03 J -31624586.70 -31624586.58 -31624586.45 0.2597 0.0792

Mercury -91287-02-01 03:49 J -31621122.45 -31621122.34 -31621122.22 0.2742 0.0761

Mercury -91284-08-10 20:51 J -31619835.69 -31619835.63 -31619835.56 0.2599 0.2258

Mercury -91277-08-03 05:15 J -31617286.37 -31617286.28 -31617286.19 0.2592 0.1934

Mercury -91274-02-04 01:39 J -31616371.49 -31616371.43 -31616371.37 0.2739 0.2318

Mercury -91267-01-27 14:23 J -31613821.98 -31613821.90 -31613821.81 0.2747 0.1957

Mercury -91264-08-06 04:47 J -31612535.44 -31612535.30 -31612535.17 0.2594 0.0399

Mercury -91254-01-30 11:44 J -31609071.13 -31609071.01 -31609070.89 0.2745 0.0460

Mercury -91251-08-09 03:49 J -31607784.47 -31607784.34 -31607784.22 0.2597 0.1110

Mercury -91241-02-02 09:20 J -31604320.23 -31604320.11 -31604320.00 0.2741 0.1073

Mercury -91238-08-12 02:23 J -31603033.41 -31603033.40 -31603033.38 0.2600 0.2567

Mercury -91231-08-04 11:01 J -31600484.15 -31600484.04 -31600483.94 0.2592 0.1607

Mercury -91228-02-04 06:56 J -31599569.24 -31599569.21 -31599569.18 0.2738 0.2637

Mercury -91221-01-28 19:39 J -31597019.77 -31597019.68 -31597019.58 0.2747 0.1652

Venus -91220-08-12 08:08 J -31596458.32 -31596458.16 -31596458.00 0.2601 0.0250

Mercury -91218-08-07 10:18 J -31595733.21 -31595733.07 -31595732.93 0.2595 0.0069

Mercury -91208-01-30 17:01 J -31592268.91 -31592268.79 -31592268.67 0.2744 0.0155

Mercury -91205-08-09 09:20 J -31590982.22 -31590982.11 -31590982.00 0.2597 0.1426

Mercury -91195-02-02 14:37 J -31587518.00 -31587517.89 -31587517.79 0.2741 0.1389

Mercury -91185-08-04 16:32 J -31583681.93 -31583681.81 -31583681.69 0.2592 0.1278

Mercury -91175-01-29 00:56 J -31580217.56 -31580217.46 -31580217.35 0.2746 0.1351

Mercury -91172-08-07 15:49 J -31578930.97 -31578930.84 -31578930.70 0.2595 0.0252

Mercury -91162-01-31 22:18 J -31575466.69 -31575466.57 -31575466.45 0.2744 0.0173

Mercury -91159-08-10 14:51 J -31574179.98 -31574179.88 -31574179.78 0.2598 0.1738

Mercury -91152-08-02 22:47 J -31571630.58 -31571630.55 -31571630.52 0.2590 0.2517

Mercury -91149-02-03 19:54 J -31570715.76 -31570715.67 -31570715.57 0.2741 0.1709

Mercury -91142-01-27 09:06 J -31568166.16 -31568166.12 -31568166.07 0.2749 0.2523

Mercury -91139-08-05 22:18 J -31566879.70 -31566879.57 -31566879.45 0.2593 0.0959

Mercury -91129-01-30 06:13 J -31563415.35 -31563415.24 -31563415.13 0.2746 0.1047

Mercury -91126-08-08 21:20 J -31562128.74 -31562128.61 -31562128.47 0.2595 0.0574

Mercury -91116-02-01 03:35 J -31558664.47 -31558664.35 -31558664.23 0.2743 0.0474

Mercury -91113-08-10 20:23 J -31557377.73 -31557377.65 -31557377.57 0.2598 0.2051

Mercury -91106-08-04 04:18 J -31554828.39 -31554828.32 -31554828.24 0.2591 0.2180

Mercury -91103-02-04 01:11 J -31553913.53 -31553913.45 -31553913.37 0.2740 0.2025

Mercury -91096-01-27 14:23 J -31551363.97 -31551363.90 -31551363.83 0.2748 0.2222

Mercury -91093-08-06 03:49 J -31550077.47 -31550077.34 -31550077.21 0.2593 0.0626

Mercury -91083-01-30 11:30 J -31546613.13 -31546613.02 -31546612.90 0.2746 0.0740

Venus -91082-02-06 11:59 J -31546241.12 -31546241.00 -31546240.88 0.2737 0.1780

Mercury -91080-08-09 02:51 J -31545326.50 -31545326.38 -31545326.25 0.2596 0.0890

Mercury -91070-02-02 08:51 J -31541862.24 -31541862.13 -31541862.01 0.2743 0.0790

Mercury -91067-08-12 01:54 J -31540575.48 -31540575.42 -31540575.37 0.2599 0.2361

Mercury -91060-08-04 10:03 J -31538026.18 -31538026.08 -31538025.99 0.2591 0.1850

Mercury -91057-02-05 06:27 J -31537111.29 -31537111.23 -31537111.16 0.2740 0.2342

Mercury -91050-01-28 19:39 J -31534561.77 -31534561.68 -31534561.60 0.2748 0.1922

Mercury -91047-08-07 09:20 J -31533275.24 -31533275.11 -31533274.97 0.2594 0.0311

Mercury -91037-01-31 16:47 J -31529810.92 -31529810.80 -31529810.68 0.2745 0.0431

Mercury -91034-08-10 08:37 J -31528524.26 -31528524.14 -31528524.02 0.2596 0.1209

Mercury -91024-02-02 14:23 J -31525060.02 -31525059.90 -31525059.79 0.2742 0.1103

Mercury -91014-08-05 15:49 J -31521223.95 -31521223.84 -31521223.73 0.2591 0.1515

Mercury -91011-02-05 11:59 J -31520309.03 -31520309.00 -31520308.98 0.2739 0.2665

Mercury -91004-01-29 00:56 J -31517759.56 -31517759.46 -31517759.37 0.2748 0.1622

Mercury -91001-08-07 15:06 J -31516473.01 -31516472.87 -31516472.74 0.2594 0.0040

91ST MILLENNIUM BCE

This is a list of transits visible from Earth in the 91st millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-90991-01-31 22:03 J	-31513008.70	-31513008.58	-31513008.46	0.2745	0.0134		
Mercury	-90988-08-10 14:08 J	-31511722.02	-31511721.91	-31511721.80	0.2597	0.1525		
Mercury	-90978-02-03 19:39 J	-31508257.79	-31508257.68	-31508257.58	0.2742	0.1419		
Venus	-90977-08-12 11:01 J	-31507702.20	-31507702.04	-31507701.88	0.2599	0.0037		
Mercury	-90968-08-05 21:20 J	-31504421.73	-31504421.61	-31504421.49	0.2592	0.1189		
Mercury	-90958-01-30 06:13 J	-31500957.35	-31500957.24	-31500957.14	0.2747	0.1317		
Mercury	-90955-08-08 20:37 J	-31499670.77	-31499670.64	-31499670.50	0.2594	0.0350		
Mercury	-90945-02-02 03:20 J	-31496206.48	-31496206.36	-31496206.24	0.2744	0.0195		
Mercury	-90942-08-11 19:39 J	-31494919.77	-31494919.68	-31494919.58	0.2597	0.1844		

Mercury -90935-08-04 03:20 J -31492370.40 -31492370.36 -31492370.31 0.2590 0.2426

Mercury -90932-02-04 00:56 J -31491455.56 -31491455.46 -31491455.37 0.2741 0.1729

Mercury -90925-01-28 14:23 J -31488905.95 -31488905.90 -31488905.85 0.2749 0.2483

Mercury -90922-08-07 03:06 J -31487619.50 -31487619.37 -31487619.25 0.2592 0.0859

Mercury -90912-01-30 11:30 J -31484155.13 -31484155.02 -31484154.91 0.2747 0.1010

Mercury -90909-08-09 02:08 J -31482868.54 -31482868.41 -31482868.28 0.2595 0.0670

Mercury -90899-02-02 08:37 J -31479404.26 -31479404.14 -31479404.02 0.2744 0.0511

Mercury -90896-08-12 01:11 J -31478117.52 -31478117.45 -31478117.37 0.2597 0.2158

Mercury -90889-08-04 09:06 J -31475568.20 -31475568.12 -31475568.04 0.2590 0.2096

Mercury -90886-02-05 06:13 J -31474653.32 -31474653.24 -31474653.16 0.2741 0.2045

Mercury -90879-01-28 19:39 J -31472103.75 -31472103.68 -31472103.61 0.2749 0.2190

Mercury -90876-08-07 08:37 J -31470817.28 -31470817.14 -31470817.01 0.2593 0.0535

Mercury -90866-01-31 16:47 J -31467352.92 -31467352.80 -31467352.69 0.2746 0.0706

Mercury -90863-08-10 07:54 J -31466066.30 -31466066.17 -31466066.05 0.2595 0.0994

Mercury -90853-02-03 13:54 J -31462602.03 -31462601.92 -31462601.80 0.2744 0.0821

Mercury -90850-08-13 06:42 J -31461315.25 -31461315.22 -31461315.18 0.2598 0.2475

Mercury -90843-08-05 14:37 J -31458765.99 -31458765.89 -31458765.79 0.2590 0.1764

Mercury -90840-02-05 11:30 J -31457851.08 -31457851.02 -31457850.96 0.2740 0.2371

Venus -90839-02-06 10:47 J -31457485.18 -31457485.05 -31457484.91 0.2740 0.1318

Mercury -90833-01-30 00:42 J -31455301.55 -31455301.47 -31455301.38 0.2749 0.1890

Mercury -90830-08-08 14:08 J -31454015.04 -31454014.91 -31454014.77 0.2593 0.0208

Mercury -90820-01-31 22:03 J -31450550.71 -31450550.58 -31450550.46 0.2746 0.0414

Mercury -90817-08-10 13:25 J -31449264.06 -31449263.94 -31449263.83 0.2595 0.1310

Mercury -90807-02-03 19:25 J -31445799.81 -31445799.69 -31445799.58 0.2743 0.1134

Mercury -90797-08-05 20:23 J -31441963.77 -31441963.65 -31441963.54 0.2591 0.1435

Mercury -90794-02-06 16:47 J -31441048.81 -31441048.80 -31441048.78 0.2740 0.2693

Mercury -90787-01-30 05:59 J -31438499.34 -31438499.25 -31438499.15 0.2748 0.1588

Mercury -90784-08-08 19:39 J -31437212.81 -31437212.68 -31437212.54 0.2593 0.0143

Mercury -90774-02-02 03:06 J -31433748.49 -31433748.37 -31433748.24 0.2745 0.0133

Mercury -90771-08-11 18:56 J -31432461.81 -31432461.71 -31432461.60 0.2596 0.1632

Mercury -90761-02-05 00:42 J -31428997.58 -31428997.47 -31428997.37 0.2742 0.1444

Mercury -90754-01-28 14:23 J -31426447.90 -31426447.90 -31426447.90 0.2750 0.2748

Mercury -90751-08-07 01:54 J -31425161.54 -31425161.42 -31425161.29 0.2591 0.1099

Mercury -90741-01-31 11:15 J -31421697.13 -31421697.03 -31421696.92 0.2748 0.1281

Mercury -90738-08-10 01:25 J -31420410.58 -31420410.44 -31420410.31 0.2594 0.0444

Venus -90734-08-13 13:54 J -31418946.08 -31418945.92 -31418945.76 0.2597 0.0164

Mercury -90728-02-02 08:37 J -31416946.27 -31416946.14 -31416946.02 0.2745 0.0243

Mercury -90725-08-12 00:27 J -31415659.57 -31415659.48 -31415659.39 0.2596 0.1946

Mercury -90718-08-05 07:54 J -31413110.22 -31413110.17 -31413110.11 0.2589 0.2344

Mercury -90715-02-05 05:59 J -31412195.35 -31412195.25 -31412195.16 0.2742 0.1758

Mercury -90708-01-28 19:39 J -31409645.74 -31409645.68 -31409645.63 0.2750 0.2454

Mercury -90705-08-07 07:39 J -31408359.31 -31408359.18 -31408359.05 0.2592 0.0769

Mercury -90695-01-31 16:32 J -31404894.92 -31404894.81 -31404894.70 0.2747 0.0980

Mercury -90692-08-10 06:56 J -31403608.34 -31403608.21 -31403608.08 0.2594 0.0775

Mercury -90682-02-03 13:39 J -31400144.05 -31400143.93 -31400143.81 0.2745 0.0537

Mercury -90679-08-13 06:13 J -31398857.31 -31398857.24 -31398857.18 0.2597 0.2268

Mercury -90672-08-05 13:39 J -31396308.02 -31396307.93 -31396307.84 0.2590 0.2012

Mercury -90669-02-06 11:15 J -31395393.11 -31395393.03 -31395392.95 0.2742 0.2074

Mercury -90662-01-30 00:42 J -31392843.54 -31392843.47 -31392843.39 0.2750 0.2153

Mercury -90659-08-08 13:11 J -31391557.08 -31391556.95 -31391556.81 0.2592 0.0445

Mercury -90649-02-01 21:49 J -31388092.71 -31388092.59 -31388092.47 0.2747 0.0677

Mercury -90646-08-11 12:42 J -31386806.10 -31386805.97 -31386805.85 0.2594 0.1094

Mercury -90636-02-03 18:56 J -31383341.82 -31383341.71 -31383341.59 0.2744 0.0842

Mercury -90633-08-13 11:44 J -31382055.02 -31382055.01 -31382055.00 0.2597 0.2584

Mercury -90626-08-06 19:11 J -31379505.80 -31379505.70 -31379505.59 0.2590 0.1679

Mercury -90623-02-06 16:32 J -31378590.87 -31378590.81 -31378590.75 0.2741 0.2392

Mercury -90616-01-30 05:59 J -31376041.34 -31376041.25 -31376041.16 0.2749 0.1851

Mercury -90613-08-08 18:56 J -31374754.85 -31374754.71 -31374754.58 0.2592 0.0121

Mercury -90603-02-02 03:06 J -31371290.49 -31371290.37 -31371290.25 0.2747 0.0369

Mercury -90600-08-11 18:13 J -31370003.85 -31370003.74 -31370003.63 0.2595 0.1416

Venus -90596-02-06 09:49 J -31368729.24 -31368729.09 -31368728.94 0.2741 0.0860

Mercury -90590-02-05 00:13 J -31366539.60 -31366539.49 -31366539.38 0.2744 0.1158

Mercury -90580-08-07 00:56 J -31362703.57 -31362703.46 -31362703.34 0.2590 0.1341

Mercury -90577-02-07 21:49 J -31361788.61 -31361788.59 -31361788.57 0.2741 0.2706

Mercury -90570-01-31 11:15 J -31359239.13 -31359239.03 -31359238.93 0.2749 0.1550

Mercury -90567-08-10 00:27 J -31357952.61 -31357952.48 -31357952.34 0.2593 0.0230

Mercury -90557-02-03 08:23 J -31354488.27 -31354488.15 -31354488.03 0.2746 0.0061

Mercury -90554-08-12 23:44 J -31353201.61 -31353201.51 -31353201.41 0.2595 0.1734

Mercury -90544-02-05 05:44 J -31349737.37 -31349737.26 -31349737.16 0.2743 0.1472

Mercury -90537-01-29 19:39 J -31347187.70 -31347187.68 -31347187.67 0.2751 0.2713

Mercury -90534-08-08 06:42 J -31345901.35 -31345901.22 -31345901.10 0.2591 0.1012

Mercury -90524-01-31 16:32 J -31342436.92 -31342436.81 -31342436.71 0.2748 0.1251

Mercury -90521-08-10 06:13 J -31341150.38 -31341150.24 -31341150.11 0.2593 0.0546

Mercury -90511-02-03 13:39 J -31337686.05 -31337685.93 -31337685.81 0.2746 0.0258

Mercury -90508-08-13 05:30 J -31336399.35 -31336399.27 -31336399.19 0.2596 0.2062

Mercury -90501-08-05 12:27 J -31333850.04 -31333849.98 -31333849.91 0.2589 0.2268

Mercury -90498-02-06 11:01 J -31332935.13 -31332935.04 -31332934.95 0.2743 0.1787

Mercury -90491-01-30 00:42 J -31330385.52 -31330385.47 -31330385.41 0.2751 0.2418

Venus -90491-08-13 17:01 J -31330189.95 -31330189.79 -31330189.63 0.2596 0.0400

Mercury -90488-08-08 12:13 J -31329099.12 -31329098.99 -31329098.85 0.2591 0.0681

Mercury -90478-02-01 21:35 J -31325634.71 -31325634.60 -31325634.48 0.2748 0.0953

Mercury -90475-08-11 11:44 J -31324348.14 -31324348.01 -31324347.88 0.2593 0.0869

Mercury -90465-02-04 18:56 J -31320883.83 -31320883.71 -31320883.59 0.2745 0.0561

Mercury -90462-08-14 11:01 J -31319597.10 -31319597.04 -31319596.99 0.2596 0.2374

Mercury -90455-08-06 18:13 J -31317047.83 -31317047.74 -31317047.65 0.2589 0.1926

Mercury -90452-02-06 16:18 J -31316132.90 -31316132.82 -31316132.75 0.2742 0.2101

Mercury -90445-01-31 05:59 J -31313583.32 -31313583.25 -31313583.17 0.2750 0.2117

Mercury -90442-08-09 17:59 J -31312296.89 -31312296.75 -31312296.62 0.2591 0.0354

Mercury -90432-02-02 02:51 J -31308832.49 -31308832.38 -31308832.26 0.2748 0.0650

Mercury -90429-08-11 17:15 J -31307545.90 -31307545.78 -31307545.66 0.2594 0.1194

Mercury -90419-02-05 00:13 J -31304081.61 -31304081.49 -31304081.38 0.2745 0.0873

Mercury -90409-08-06 23:59 J -31300245.61 -31300245.50 -31300245.39 0.2589 0.1589

Mercury -90406-02-07 21:35 J -31299330.66 -31299330.60 -31299330.55 0.2742 0.2413

Mercury -90399-01-31 11:15 J -31296781.12 -31296781.03 -31296780.94 0.2750 0.1824

Mercury -90396-08-09 23:30 J -31295494.65 -31295494.52 -31295494.38 0.2592 0.0079

Mercury -90386-02-03 08:08 J -31292030.28 -31292030.16 -31292030.04 0.2747 0.0340

Mercury -90383-08-12 23:01 J -31290743.65 -31290743.54 -31290743.43 0.2594 0.1515

Mercury -90373-02-06 05:30 J -31287279.38 -31287279.27 -31287279.16 0.2744 0.1183

Mercury -90363-08-08 05:30 J -31283443.39 -31283443.27 -31283443.15 0.2590 0.1255

Mercury -90360-02-08 02:51 J -31282528.39 -31282528.38 -31282528.38 0.2741 0.2731

Mercury -90353-02-01 16:32 J -31279978.91 -31279978.81 -31279978.72 0.2749 0.1523

Venus -90353-02-07 08:23 J -31279973.31 -31279973.15 -31279973.00 0.2743 0.0372

Mercury -90350-08-11 05:15 J -31278692.42 -31278692.28 -31278692.14 0.2592 0.0315

Mercury -90340-02-03 13:25 J -31275228.06 -31275227.94 -31275227.82 0.2747 0.0041

Mercury -90337-08-13 04:32 J -31273941.40 -31273941.31 -31273941.21 0.2595 0.1844

Mercury -90330-08-06 11:15 J -31271392.05 -31271392.03 -31271392.00 0.2588 0.2523

Mercury -90327-02-06 10:32 J -31270477.16 -31270477.06 -31270476.95 0.2744 0.1497

Mercury -90320-01-30 00:56 J -31267927.49 -31267927.46 -31267927.44 0.2751 0.2678

Mercury -90317-08-08 11:15 J -31266641.16 -31266641.03 -31266640.90 0.2590 0.0919

Mercury -90307-02-01 21:35 J -31263176.70 -31263176.60 -31263176.49 0.2749 0.1219

Mercury -90304-08-11 10:47 J -31261890.18 -31261890.05 -31261889.91 0.2592 0.0650

Mercury -90294-02-04 18:42 J -31258425.84 -31258425.72 -31258425.60 0.2746 0.0279

Mercury -90291-08-14 10:03 J -31257139.15 -31257139.08 -31257139.00 0.2595 0.2162

Mercury -90284-08-06 17:01 J -31254589.86 -31254589.79 -31254589.71 0.2588 0.2181

Mercury -90281-02-07 16:03 J -31253674.92 -31253674.83 -31253674.74 0.2744 0.1808

Mercury -90274-01-31 05:59 J -31251125.30 -31251125.25 -31251125.19 0.2751 0.2379

Mercury -90271-08-09 17:01 J -31249838.93 -31249838.79 -31249838.66 0.2590 0.0589

Mercury -90261-02-03 02:51 J -31246374.49 -31246374.38 -31246374.26 0.2749 0.0915

Mercury -90258-08-12 16:32 J -31245087.94 -31245087.81 -31245087.69 0.2593 0.0970

Mercury -90248-02-04 23:59 J -31241623.62 -31241623.50 -31241623.38 0.2746 0.0588

Venus -90248-08-13 19:39 J -31241433.84 -31241433.68 -31241433.52 0.2594 0.0578

Mercury -90245-08-14 15:49 J -31240336.88 -31240336.84 -31240336.81 0.2595 0.2483

Mercury -90238-08-07 22:47 J -31237787.65 -31237787.55 -31237787.45 0.2588 0.1842

Mercury -90235-02-07 21:20 J -31236872.69 -31236872.61 -31236872.54 0.2743 0.2126

Mercury -90228-01-31 11:15 J -31234323.11 -31234323.03 -31234322.95 0.2751 0.2085

Mercury -90225-08-09 22:32 J -31233036.69 -31233036.56 -31233036.42 0.2591 0.0256

Mercury -90215-02-03 08:08 J -31229572.28 -31229572.16 -31229572.04 0.2748 0.0611

Mercury -90212-08-12 22:03 J -31228285.70 -31228285.58 -31228285.46 0.2593 0.1295

Mercury -90202-02-06 05:15 J -31224821.40 -31224821.28 -31224821.17 0.2745 0.0899

Mercury -90192-08-08 04:32 J -31220985.43 -31220985.31 -31220985.20 0.2589 0.1507

Mercury -90189-02-09 02:37 J -31220070.45 -31220070.39 -31220070.34 0.2743 0.2439

Mercury -90182-02-01 16:32 J -31217520.90 -31217520.81 -31217520.72 0.2750 0.1789

Mercury -90179-08-11 04:18 J -31216234.46 -31216234.32 -31216234.19 0.2591 0.0100

Mercury -90169-02-04 13:25 J -31212770.06 -31212769.94 -31212769.82 0.2748 0.0312

Mercury -90166-08-14 03:35 J -31211483.45 -31211483.35 -31211483.24 0.2594 0.1621

Mercury -90156-02-06 10:32 J -31208019.17 -31208019.06 -31208018.95 0.2745 0.1208

Mercury -90146-08-09 10:03 J -31204183.20 -31204183.08 -31204182.95 0.2589 0.1171

Mercury -90136-02-01 21:35 J -31200718.70 -31200718.60 -31200718.50 0.2750 0.1490

Mercury -90133-08-11 09:49 J -31199432.22 -31199432.09 -31199431.95 0.2591 0.0408

Mercury -90123-02-04 18:42 J -31195967.85 -31195967.72 -31195967.60 0.2747 0.0103

Mercury -90120-08-14 09:20 J -31194681.20 -31194681.11 -31194681.02 0.2594 0.1940

Mercury -90113-08-06 15:49 J -31192131.88 -31192131.84 -31192131.79 0.2587 0.2440

Venus -90110-02-07 07:11 J -31191217.35 -31191217.20 -31191217.04 0.2745 0.0113

Mercury -90110-02-07 15:49 J -31191216.94 -31191216.84 -31191216.74 0.2745 0.1519

Mercury -90103-01-31 05:59 J -31188667.27 -31188667.25 -31188667.22 0.2752 0.2645

Mercury -90100-08-09 15:49 J -31187380.97 -31187380.84 -31187380.71 0.2589 0.0830

Mercury -90090-02-03 02:51 J -31183916.49 -31183916.38 -31183916.27 0.2749 0.1187

Mercury -90087-08-12 15:35 J -31182629.99 -31182629.85 -31182629.72 0.2592 0.0739

Mercury -90077-02-05 23:44 J -31179165.63 -31179165.51 -31179165.39 0.2747 0.0312

Mercury -90074-08-15 14:51 J -31177878.94 -31177878.88 -31177878.81 0.2594 0.2264

Mercury -90067-08-07 21:35 J -31175329.68 -31175329.60 -31175329.52 0.2588 0.2096

Mercury -90064-02-07 21:06 J -31174414.71 -31174414.62 -31174414.53 0.2744 0.1835

Mercury -90057-02-01 11:15 J -31171865.09 -31171865.03 -31171864.97 0.2752 0.2345

Mercury -90054-08-10 21:35 J -31170578.74 -31170578.60 -31170578.46 0.2590 0.0491

Mercury -90044-02-03 08:08 J -31167114.28 -31167114.16 -31167114.05 0.2749 0.0886

Mercury -90041-08-12 21:06 J -31165827.74 -31165827.62 -31165827.49 0.2592 0.1072

Mercury -90031-02-06 05:01 J -31162363.41 -31162363.29 -31162363.17 0.2747 0.0617

Mercury -90028-08-15 20:23 J -31161076.65 -31161076.65 -31161076.64 0.2595 0.2586

Mercury -90021-08-08 03:20 J -31158527.46 -31158527.36 -31158527.26 0.2588 0.1756

Mercury -90018-02-09 02:23 J -31157612.48 -31157612.40 -31157612.33 0.2744 0.2145

Mercury -90011-02-01 16:32 J -31155062.89 -31155062.81 -31155062.73 0.2751 0.2048

Mercury -90008-08-11 03:06 J -31153776.50 -31153776.37 -31153776.23 0.2590 0.0171

Venus -90005-08-13 22:47 J -31152677.70 -31152677.55 -31152677.40 0.2593 0.0813

90TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 90th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-89998-02-04 13:25 J	-31150312.06	-31150311.94	-31150311.83	0.2749	0.0582		
Mercury	-89995-08-14 02:51 J	-31149025.50	-31149025.38	-31149025.27	0.2593	0.1397		
Mercury	-89985-02-07 10:18 J	-31145561.18	-31145561.07	-31145560.95	0.2746	0.0923		
Mercury	-89975-08-09 09:06 J	-31141725.24	-31141725.12	-31141725.01	0.2588	0.1420		
Mercury	-89972-02-09 07:39 J	-31140810.23	-31140810.18	-31140810.13	0.2743	0.2463		
Mercury	-89965-02-02 21:35 J	-31138260.69	-31138260.60	-31138260.50	0.2751	0.1755		

Mercury -89962-08-12 08:51 J -31136974.27 -31136974.13 -31136973.99 0.2591 0.0173

Mercury -89952-02-04 18:27 J -31133509.85 -31133509.73 -31133509.61 0.2748 0.0285

Mercury -89949-08-14 08:23 J -31132223.25 -31132223.15 -31132223.05 0.2593 0.1722

Mercury -89939-02-07 15:35 J -31128758.96 -31128758.85 -31128758.74 0.2746 0.1236

Mercury -89929-08-09 14:37 J -31124923.01 -31124922.89 -31124922.76 0.2589 0.1084

Mercury -89919-02-03 02:51 J -31121458.48 -31121458.38 -31121458.28 0.2750 0.1454

Mercury -89916-08-12 14:23 J -31120172.03 -31120171.90 -31120171.76 0.2591 0.0508

Mercury -89906-02-05 23:44 J -31116707.63 -31116707.51 -31116707.39 0.2748 0.0030

Mercury -89903-08-15 14:08 J -31115421.00 -31115420.91 -31115420.83 0.2593 0.2048

Mercury -89896-08-07 20:23 J -31112871.71 -31112871.65 -31112871.60 0.2587 0.2365

Mercury -89893-02-08 20:51 J -31111956.73 -31111956.63 -31111956.53 0.2745 0.1546

Mercury -89886-02-01 11:30 J -31109407.06 -31109407.02 -31109406.99 0.2752 0.2604

Mercury -89883-08-10 20:23 J -31108120.78 -31108120.65 -31108120.52 0.2589 0.0742

Mercury -89873-02-04 08:08 J -31104656.27 -31104656.16 -31104656.05 0.2750 0.1156

Mercury -89870-08-13 20:08 J -31103369.79 -31103369.66 -31103369.53 0.2591 0.0836

Venus -89867-02-07 05:59 J -31102461.41 -31102461.25 -31102461.10 0.2747 0.0608

Mercury -89860-02-06 05:01 J -31099905.41 -31099905.29 -31099905.17 0.2748 0.0336

Mercury -89857-08-15 19:39 J -31098618.73 -31098618.68 -31098618.63 0.2594 0.2370

Mercury -89850-08-09 02:08 J -31096069.50 -31096069.41 -31096069.33 0.2587 0.2019

Mercury -89847-02-09 02:08 J -31095154.50 -31095154.41 -31095154.32 0.2745 0.1858

Mercury -89840-02-01 16:32 J -31092604.87 -31092604.81 -31092604.75 0.2752 0.2313

Mercury -89837-08-11 02:08 J -31091318.55 -31091318.41 -31091318.28 0.2589 0.0412

Mercury -89827-02-04 13:25 J -31087854.06 -31087853.94 -31087853.83 0.2750 0.0855

Mercury -89824-08-14 01:54 J -31086567.55 -31086567.42 -31086567.30 0.2592 0.1168

Mercury -89814-02-07 10:18 J -31083103.19 -31083103.07 -31083102.95 0.2747 0.0645

Mercury -89804-08-09 07:39 J -31079267.28 -31079267.18 -31079267.07 0.2588 0.1676

Mercury -89801-02-10 07:25 J -31078352.26 -31078352.19 -31078352.12 0.2745 0.2172

Mercury -89794-02-02 21:49 J -31075802.67 -31075802.59 -31075802.51 0.2752 0.2018

Mercury -89791-08-12 07:54 J -31074516.31 -31074516.17 -31074516.04 0.2590 0.0102

Mercury -89781-02-05 18:27 J -31071051.85 -31071051.73 -31071051.61 0.2749 0.0553

Mercury -89778-08-15 07:25 J -31069765.30 -31069765.19 -31069765.08 0.2592 0.1497

Mercury -89768-02-07 15:35 J -31066300.97 -31066300.85 -31066300.74 0.2747 0.0956

Venus -89762-08-15 01:25 J -31063921.59 -31063921.44 -31063921.29 0.2592 0.1003

Mercury -89758-08-10 13:25 J -31062465.05 -31062464.94 -31062464.82 0.2588 0.1334

Mercury -89755-02-10 12:42 J -31061550.02 -31061549.97 -31061549.92 0.2744 0.2487

Mercury -89748-02-03 03:06 J -31059000.47 -31059000.37 -31059000.28 0.2751 0.1720

Mercury -89745-08-12 13:25 J -31057714.08 -31057713.94 -31057713.80 0.2590 0.0269

Mercury -89735-02-05 23:44 J -31054249.63 -31054249.51 -31054249.39 0.2749 0.0248

Mercury -89732-08-15 13:11 J -31052963.05 -31052962.95 -31052962.86 0.2592 0.1827

Mercury -89722-02-08 20:37 J -31049498.74 -31049498.64 -31049498.53 0.2746 0.1261

Mercury -89712-08-10 19:11 J -31045662.83 -31045662.70 -31045662.57 0.2588 0.0989

Mercury -89702-02-04 08:08 J -31042198.26 -31042198.16 -31042198.06 0.2751 0.1417

Mercury -89699-08-13 19:11 J -31040911.84 -31040911.70 -31040911.57 0.2590 0.0605

Mercury -89689-02-07 05:01 J -31037447.41 -31037447.29 -31037447.17 0.2749 0.0067

Mercury -89686-08-16 18:42 J -31036160.79 -31036160.72 -31036160.64 0.2593 0.2153

Mercury -89679-08-09 00:42 J -31033611.53 -31033611.47 -31033611.40 0.2586 0.2280

Mercury -89676-02-09 01:54 J -31032696.52 -31032696.42 -31032696.32 0.2746 0.1573

Mercury -89669-02-02 16:47 J -31030146.84 -31030146.80 -31030146.76 0.2753 0.2571

Mercury -89666-08-12 00:56 J -31028860.60 -31028860.46 -31028860.33 0.2588 0.0652

Mercury -89656-02-04 13:25 J -31025396.05 -31025395.94 -31025395.83 0.2751 0.1119

Mercury -89653-08-14 00:42 J -31024109.59 -31024109.47 -31024109.34 0.2591 0.0941

Mercury -89643-02-07 10:18 J -31020645.19 -31020645.07 -31020644.95 0.2748 0.0376

Mercury -89640-08-17 00:27 J -31019358.52 -31019358.48 -31019358.45 0.2593 0.2482

Mercury -89633-08-09 06:27 J -31016809.32 -31016809.23 -31016809.14 0.2587 0.1940

Mercury -89630-02-10 07:11 J -31015894.28 -31015894.20 -31015894.11 0.2746 0.1885

Venus -89624-02-07 04:47 J -31013705.44 -31013705.30 -31013705.16 0.2748 0.1076

Mercury -89623-02-02 21:49 J -31013344.65 -31013344.59 -31013344.52 0.2752 0.2278

Mercury -89620-08-12 06:42 J -31012058.36 -31012058.22 -31012058.08 0.2589 0.0313

Mercury -89610-02-05 18:27 J -31008593.84 -31008593.73 -31008593.61 0.2750 0.0824

Mercury -89607-08-15 06:27 J -31007307.35 -31007307.23 -31007307.11 0.2591 0.1270

Mercury -89597-02-08 15:20 J -31003842.97 -31003842.86 -31003842.74 0.2748 0.0679

Mercury -89587-08-10 12:13 J -31000007.10 -31000006.99 -31000006.88 0.2587 0.1589

Mercury -89584-02-10 12:27 J -30999092.05 -30999091.98 -30999091.91 0.2745 0.2203

Mercury -89577-02-04 03:06 J -30996542.45 -30996542.37 -30996542.29 0.2752 0.1977

Mercury -89574-08-13 12:13 J -30995256.13 -30995255.99 -30995255.85 0.2589 0.0074

Mercury -89564-02-05 23:44 J -30991791.63 -30991791.51 -30991791.39 0.2750 0.0518

Mercury -89561-08-15 12:13 J -30990505.10 -30990504.99 -30990504.89 0.2591 0.1603

Mercury -89551-02-08 20:37 J -30987040.75 -30987040.64 -30987040.53 0.2747 0.0981

Mercury -89541-08-10 17:59 J -30983204.87 -30983204.75 -30983204.63 0.2587 0.1243

Mercury -89538-02-11 17:44 J -30982289.81 -30982289.76 -30982289.71 0.2745 0.2512

Mercury -89531-02-04 08:23 J -30979740.25 -30979740.15 -30979740.06 0.2752 0.1682

Mercury -89528-08-13 17:59 J -30978453.88 -30978453.75 -30978453.61 0.2590 0.0372

Venus -89519-08-15 04:32 J -30975165.45 -30975165.31 -30975165.17 0.2591 0.1232

Mercury -89518-02-07 05:01 J -30974989.41 -30974989.29 -30974989.17 0.2749 0.0213

Mercury -89515-08-16 17:44 J -30973702.85 -30973702.76 -30973702.67 0.2592 0.1929

Venus -89511-08-12 21:35 J -30972245.66 -30972245.60 -30972245.55 0.2589 0.2417

Mercury -89508-08-08 23:30 J -30971153.54 -30971153.52 -30971153.50 0.2586 0.2544

Mercury -89505-02-10 01:54 J -30970238.53 -30970238.42 -30970238.31 0.2747 0.1291

Mercury -89495-08-11 23:44 J -30966402.64 -30966402.51 -30966402.38 0.2588 0.0900

Mercury -89485-02-05 13:25 J -30962938.04 -30962937.94 -30962937.84 0.2751 0.1388

Mercury -89482-08-14 23:44 J -30961651.64 -30961651.51 -30961651.38 0.2590 0.0702

Mercury -89472-02-07 10:18 J -30958187.19 -30958187.07 -30958186.95 0.2749 0.0125

Mercury -89469-08-16 23:30 J -30956900.59 -30956900.52 -30956900.46 0.2592 0.2262

Mercury -89462-08-10 05:15 J -30954351.36 -30954351.28 -30954351.21 0.2586 0.2202

Mercury -89459-02-10 07:11 J -30953436.30 -30953436.20 -30953436.10 0.2747 0.1601

Mercury -89452-02-02 22:03 J -30950886.62 -30950886.58 -30950886.54 0.2753 0.2533

Mercury -89449-08-12 05:30 J -30949600.41 -30949600.27 -30949600.13 0.2588 0.0557

Mercury -89439-02-05 18:42 J -30946135.83 -30946135.72 -30946135.61 0.2751 0.1088

Mercury -89436-08-15 05:30 J -30944849.40 -30944849.27 -30944849.15 0.2590 0.1041

Mercury -89426-02-08 15:20 J -30941384.98 -30941384.86 -30941384.74 0.2749 0.0395

Mercury -89423-08-18 05:01 J -30940098.29 -30940098.29 -30940098.28 0.2593 0.2587

Mercury -89416-08-10 11:01 J -30937549.14 -30937549.04 -30937548.94 0.2586 0.1846

Mercury -89413-02-11 12:27 J -30936634.07 -30936633.98 -30936633.90 0.2746 0.1912

Mercury -89406-02-04 03:20 J -30934084.43 -30934084.36 -30934084.29 0.2753 0.2233

Mercury -89403-08-13 11:15 J -30932798.17 -30932798.03 -30932797.89 0.2588 0.0229

Mercury -89393-02-06 23:59 J -30929333.62 -30929333.50 -30929333.39 0.2751 0.0789

Mercury -89390-08-16 11:01 J -30928047.15 -30928047.04 -30928046.92 0.2591 0.1372

Venus -89381-02-08 03:49 J -30924949.47 -30924949.34 -30924949.22 0.2750 0.1564

Mercury -89380-02-08 20:37 J -30924582.76 -30924582.64 -30924582.52 0.2748 0.0702

Mercury -89370-08-11 16:47 J -30920746.92 -30920746.80 -30920746.69 0.2587 0.1502

Mercury -89367-02-11 17:30 J -30919831.83 -30919831.77 -30919831.70 0.2746 0.2224

Mercury -89360-02-04 08:23 J -30917282.23 -30917282.15 -30917282.06 0.2752 0.1941

Mercury -89357-08-13 17:01 J -30915995.93 -30915995.79 -30915995.65 0.2589 0.0148

Mercury -89347-02-07 05:01 J -30912531.41 -30912531.29 -30912531.17 0.2750 0.0481

Mercury -89344-08-16 16:47 J -30911244.90 -30911244.80 -30911244.70 0.2591 0.1707

Mercury -89334-02-10 01:54 J -30907780.53 -30907780.42 -30907780.31 0.2748 0.1015

Mercury -89324-08-11 22:32 J -30903944.69 -30903944.56 -30903944.44 0.2587 0.1155

Mercury -89321-02-12 23:01 J -30903029.59 -30903029.54 -30903029.50 0.2745 0.2541

Mercury -89314-02-05 13:39 J -30900480.03 -30900479.93 -30900479.84 0.2752 0.1646

Mercury -89311-08-14 22:32 J -30899193.70 -30899193.56 -30899193.42 0.2589 0.0465

Mercury -89301-02-08 10:18 J -30895729.19 -30895729.07 -30895728.95 0.2750 0.0179

Mercury -89298-08-17 22:32 J -30894442.65 -30894442.56 -30894442.48 0.2591 0.2041

Mercury -89291-08-10 03:49 J -30891893.38 -30891893.34 -30891893.30 0.2585 0.2469

Mercury -89288-02-10 07:11 J -30890978.31 -30890978.20 -30890978.10 0.2747 0.1326

Mercury -89278-08-13 04:18 J -30887142.46 -30887142.32 -30887142.19 0.2587 0.0816

Venus -89276-08-15 07:25 J -30886409.32 -30886409.19 -30886409.06 0.2589 0.1448

Mercury -89268-02-05 18:42 J -30883677.82 -30883677.72 -30883677.61 0.2752 0.1351

Venus -89268-08-13 00:13 J -30883489.57 -30883489.49 -30883489.41 0.2587 0.2232

Mercury -89265-08-15 04:18 J -30882391.45 -30882391.32 -30882391.19 0.2589 0.0803

Mercury -89255-02-08 15:20 J -30878926.98 -30878926.86 -30878926.74 0.2750 0.0157

Mercury -89252-08-18 04:03 J -30877640.38 -30877640.33 -30877640.28 0.2592 0.2365

Mercury -89245-08-10 09:35 J -30875091.18 -30875091.10 -30875091.02 0.2586 0.2111

Mercury -89242-02-11 12:13 J -30874176.08 -30874175.99 -30874175.89 0.2747 0.1633

Mercury -89235-02-04 03:35 J -30871626.40 -30871626.35 -30871626.31 0.2753 0.2492

Mercury -89232-08-13 09:49 J -30870340.22 -30870340.09 -30870339.95 0.2588 0.0472

Mercury -89222-02-06 23:59 J -30866875.61 -30866875.50 -30866875.39 0.2751 0.1048

Mercury -89219-08-16 09:49 J -30865589.21 -30865589.09 -30865588.96 0.2590 0.1135

Mercury -89209-02-09 20:37 J -30862124.76 -30862124.64 -30862124.52 0.2749 0.0428

Mercury -89199-08-11 15:20 J -30858288.96 -30858288.86 -30858288.76 0.2586 0.1763

Mercury -89196-02-11 17:30 J -30857373.85 -30857373.77 -30857373.68 0.2747 0.1940

Mercury -89189-02-05 08:37 J -30854824.21 -30854824.14 -30854824.07 0.2753 0.2201

Mercury -89186-08-14 15:35 J -30853537.99 -30853537.85 -30853537.71 0.2588 0.0146

Mercury -89176-02-07 05:01 J -30850073.40 -30850073.29 -30850073.17 0.2751 0.0757

Mercury -89173-08-16 15:35 J -30848786.96 -30848786.85 -30848786.73 0.2590 0.1476

Mercury -89163-02-10 01:54 J -30845322.54 -30845322.42 -30845322.31 0.2749 0.0737

Mercury -89153-08-11 21:06 J -30841486.73 -30841486.62 -30841486.50 0.2586 0.1412

Mercury -89150-02-12 22:47 J -30840571.62 -30840571.55 -30840571.48 0.2746 0.2252

Venus -89146-02-10 12:56 J -30839112.99 -30839112.96 -30839112.92 0.2749 0.2665

Mercury -89143-02-05 13:54 J -30838022.01 -30838021.92 -30838021.84 0.2753 0.1907

Mercury -89140-08-14 21:20 J -30836735.75 -30836735.61 -30836735.47 0.2588 0.0224

Venus -89138-02-08 02:37 J -30836193.49 -30836193.39 -30836193.28 0.2751 0.2038

Mercury -89130-02-08 10:18 J -30833271.19 -30833271.07 -30833270.95 0.2751 0.0453

Mercury -89127-08-17 21:20 J -30831984.71 -30831984.61 -30831984.51 0.2591 0.1810

Mercury -89117-02-11 07:11 J -30828520.31 -30828520.20 -30828520.09 0.2748 0.1045

Mercury -89107-08-13 02:51 J -30824684.51 -30824684.38 -30824684.25 0.2587 0.1068

Mercury -89104-02-13 04:03 J -30823769.37 -30823769.33 -30823769.29 0.2746 0.2565

Mercury -89097-02-06 18:56 J -30821219.80 -30821219.71 -30821219.61 0.2753 0.1608

Mercury -89094-08-16 03:06 J -30819933.50 -30819933.37 -30819933.23 0.2589 0.0565

Mercury -89084-02-08 15:35 J -30816468.97 -30816468.85 -30816468.73 0.2750 0.0146

Mercury -89081-08-18 03:06 J -30815182.45 -30815182.37 -30815182.30 0.2591 0.2145

Mercury -89074-08-11 08:08 J -30812633.21 -30812633.16 -30812633.11 0.2585 0.2380

Mercury -89071-02-11 12:13 J -30811718.09 -30811717.99 -30811717.88 0.2748 0.1351

Mercury -89064-02-04 03:49 J -30809168.35 -30809168.34 -30809168.34 0.2754 0.2744

Mercury -89061-08-13 08:37 J -30807882.27 -30807882.14 -30807882.00 0.2587 0.0717

Mercury -89051-02-07 00:13 J -30804417.60 -30804417.49 -30804417.39 0.2752 0.1307

Mercury -89048-08-16 08:51 J -30803131.26 -30803131.13 -30803131.00 0.2589 0.0899

Mercury -89038-02-09 20:51 J -30799666.75 -30799666.63 -30799666.51 0.2750 0.0179

Mercury -89035-08-19 08:37 J -30798380.17 -30798380.14 -30798380.10 0.2591 0.2477

Venus -89033-08-15 10:18 J -30797653.19 -30797653.07 -30797652.95 0.2588 0.1676

Mercury -89028-08-11 13:54 J -30795831.00 -30795830.92 -30795830.83 0.2585 0.2032

Mercury -89025-02-12 17:30 J -30794915.86 -30794915.77 -30794915.67 0.2748 0.1662

Venus -89025-08-13 03:20 J -30794733.46 -30794733.36 -30794733.26 0.2587 0.1983

Mercury -89018-02-05 08:51 J -30792366.18 -30792366.13 -30792366.08 0.2754 0.2453

Mercury -89015-08-14 14:23 J -30791080.04 -30791079.90 -30791079.76 0.2587 0.0374

Mercury -89005-02-08 05:15 J -30787615.39 -30787615.28 -30787615.17 0.2752 0.1014

Mercury -89002-08-17 14:37 J -30786329.01 -30786328.89 -30786328.77 0.2589 0.1244

89TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 89th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-88992-02-10 01:54 J	-30782864.53	-30782864.42	-30782864.30	0.2750	0.0469		
Mercury	-88982-08-12 19:39 J	-30779028.78	-30779028.68	-30779028.57	0.2586	0.1683		
Mercury	-88979-02-12 22:47 J	-30778113.63	-30778113.55	-30778113.47	0.2747	0.1971		

Mercury -88972-02-05 13:54 J -30775563.99 -30775563.92 -30775563.84 0.2754 0.2164
 Mercury -88969-08-14 20:08 J -30774277.80 -30774277.66 -30774277.52 0.2587 0.0042
 Mercury -88959-02-08 10:32 J -30770813.18 -30770813.06 -30770812.95 0.2751 0.0716
 Mercury -88956-08-17 20:08 J -30769526.77 -30769526.66 -30769526.55 0.2590 0.1576
 Mercury -88946-02-11 07:11 J -30766062.32 -30766062.20 -30766062.09 0.2749 0.0767
 Mercury -88936-08-13 01:25 J -30762226.56 -30762226.44 -30762226.32 0.2586 0.1333
 Mercury -88933-02-14 04:03 J -30761311.40 -30761311.33 -30761311.27 0.2747 0.2281
 Mercury -88926-02-06 19:11 J -30758761.79 -30758761.70 -30758761.62 0.2753 0.1869
 Mercury -88923-08-16 01:54 J -30757475.56 -30757475.42 -30757475.28 0.2588 0.0313
 Mercury -88913-02-09 15:35 J -30754010.96 -30754010.85 -30754010.73 0.2751 0.0422
 Mercury -88910-08-19 01:54 J -30752724.51 -30752724.42 -30752724.33 0.2590 0.1912
 Venus -88903-02-10 11:59 J -30750357.10 -30750357.00 -30750356.91 0.2750 0.2169
 Mercury -88900-02-11 12:27 J -30749260.09 -30749259.98 -30749259.87 0.2749 0.1076
 Venus -88895-02-08 01:39 J -30747437.49 -30747437.43 -30747437.36 0.2752 0.2511
 Mercury -88890-08-14 07:11 J -30745424.33 -30745424.20 -30745424.06 0.2586 0.0980
 Mercury -88887-02-14 09:20 J -30744509.15 -30744509.11 -30744509.08 0.2746 0.2591
 Mercury -88880-02-07 00:13 J -30741959.58 -30741959.49 -30741959.39 0.2753 0.1574
 Mercury -88877-08-16 07:39 J -30740673.32 -30740673.18 -30740673.05 0.2588 0.0659
 Mercury -88867-02-09 20:51 J -30737208.75 -30737208.63 -30737208.51 0.2751 0.0112
 Mercury -88864-08-19 07:39 J -30735922.25 -30735922.18 -30735922.12 0.2590 0.2246
 Mercury -88857-08-11 12:27 J -30733373.04 -30733372.98 -30733372.92 0.2585 0.2303
 Mercury -88854-02-12 17:30 J -30732457.87 -30732457.77 -30732457.66 0.2749 0.1380
 Mercury -88847-02-05 09:06 J -30729908.14 -30729908.12 -30729908.10 0.2754 0.2704
 Mercury -88844-08-14 13:11 J -30728622.09 -30728621.95 -30728621.82 0.2587 0.0630
 Mercury -88834-02-08 05:30 J -30725157.37 -30725157.27 -30725157.17 0.2753 0.1276
 Mercury -88831-08-17 13:25 J -30723871.07 -30723870.94 -30723870.81 0.2588 0.1005
 Mercury -88821-02-11 02:08 J -30720406.53 -30720406.41 -30720406.30 0.2750 0.0213
 Mercury -88818-08-20 13:11 J -30719119.95 -30719119.95 -30719119.94 0.2591 0.2587
 Mercury -88811-08-12 18:13 J -30716570.83 -30716570.74 -30716570.64 0.2585 0.1949
 Mercury -88808-02-12 22:47 J -30715655.64 -30715655.55 -30715655.46 0.2748 0.1689

Mercury -88801-02-06 14:23 J -30713105.96 -30713105.90 -30713105.85 0.2754 0.2414

Mercury -88798-08-15 18:56 J -30711819.85 -30711819.71 -30711819.57 0.2587 0.0292

Venus -88790-08-16 13:11 J -30708897.06 -30708896.95 -30708896.84 0.2587 0.1891

Mercury -88788-02-08 10:47 J -30708355.16 -30708355.05 -30708354.94 0.2752 0.0979

Mercury -88785-08-17 18:56 J -30707068.82 -30707068.71 -30707068.59 0.2589 0.1344

Venus -88782-08-14 05:59 J -30705977.36 -30705977.25 -30705977.13 0.2586 0.1789

Mercury -88775-02-11 07:11 J -30703604.31 -30703604.20 -30703604.08 0.2750 0.0495

Mercury -88765-08-12 23:59 J -30699768.61 -30699768.50 -30699768.39 0.2585 0.1598

Mercury -88762-02-14 04:03 J -30698853.42 -30698853.33 -30698853.25 0.2748 0.1996

Mercury -88755-02-06 19:25 J -30696303.76 -30696303.69 -30696303.62 0.2754 0.2121

Mercury -88752-08-16 00:27 J -30695017.62 -30695017.48 -30695017.33 0.2587 0.0103

Mercury -88742-02-09 15:49 J -30691552.95 -30691552.84 -30691552.72 0.2752 0.0679

Mercury -88739-08-19 00:42 J -30690266.57 -30690266.47 -30690266.36 0.2589 0.1682

Mercury -88729-02-12 12:27 J -30686802.10 -30686801.98 -30686801.87 0.2750 0.0800

Mercury -88719-08-14 05:44 J -30682966.38 -30682966.26 -30682966.13 0.2585 0.1246

Mercury -88716-02-14 09:06 J -30682051.18 -30682051.12 -30682051.05 0.2747 0.2307

Mercury -88709-02-08 00:42 J -30679501.56 -30679501.47 -30679501.39 0.2753 0.1832

Mercury -88706-08-17 06:13 J -30678215.38 -30678215.24 -30678215.10 0.2587 0.0413

Mercury -88696-02-09 21:06 J -30674750.74 -30674750.62 -30674750.51 0.2751 0.0387

Mercury -88693-08-19 06:27 J -30673464.32 -30673464.23 -30673464.14 0.2589 0.2015

Mercury -88683-02-12 17:30 J -30669999.87 -30669999.77 -30669999.66 0.2749 0.1106

Mercury -88673-08-14 11:30 J -30666164.15 -30666164.02 -30666163.88 0.2586 0.0897

Mercury -88670-02-15 14:23 J -30665248.93 -30665248.90 -30665248.86 0.2747 0.2620

Mercury -88663-02-08 05:44 J -30662699.36 -30662699.26 -30662699.16 0.2753 0.1534

Venus -88660-02-10 10:47 J -30661601.17 -30661601.05 -30661600.92 0.2751 0.1696

Mercury -88660-08-17 11:59 J -30661413.13 -30661413.00 -30661412.86 0.2588 0.0759

Mercury -88650-02-11 02:08 J -30657948.53 -30657948.41 -30657948.29 0.2751 0.0085

Mercury -88647-08-20 12:13 J -30656662.05 -30656661.99 -30656661.94 0.2590 0.2357

Mercury -88640-08-12 16:47 J -30654112.87 -30654112.80 -30654112.73 0.2584 0.2225

Mercury -88637-02-13 22:47 J -30653197.65 -30653197.55 -30653197.45 0.2749 0.1413

Mercury -88630-02-06 14:37 J -30650647.92 -30650647.89 -30650647.87 0.2755 0.2667

Mercury -88627-08-15 17:30 J -30649361.91 -30649361.77 -30649361.64 0.2586 0.0546

Mercury -88617-02-09 10:47 J -30645897.15 -30645897.05 -30645896.94 0.2753 0.1243

Mercury -88614-08-18 17:44 J -30644610.88 -30644610.76 -30644610.63 0.2588 0.1098

Mercury -88604-02-11 07:25 J -30641146.31 -30641146.19 -30641146.07 0.2751 0.0229

Mercury -88594-08-13 22:32 J -30637310.66 -30637310.56 -30637310.46 0.2585 0.1869

Mercury -88591-02-14 04:03 J -30636395.42 -30636395.33 -30636395.24 0.2749 0.1716

Mercury -88584-02-06 19:39 J -30633845.73 -30633845.68 -30633845.62 0.2754 0.2379

Mercury -88581-08-15 23:15 J -30632559.67 -30632559.53 -30632559.39 0.2586 0.0198

Mercury -88571-02-09 16:03 J -30629094.94 -30629094.83 -30629094.72 0.2753 0.0946

Mercury -88568-08-18 23:30 J -30627808.63 -30627808.52 -30627808.40 0.2588 0.1441

Mercury -88558-02-12 12:27 J -30624344.09 -30624343.98 -30624343.86 0.2751 0.0527

Mercury -88548-08-14 04:18 J -30620508.43 -30620508.32 -30620508.20 0.2585 0.1510

Venus -88547-08-16 15:49 J -30620140.93 -30620140.84 -30620140.75 0.2586 0.2096

Mercury -88545-02-15 09:20 J -30619593.19 -30619593.11 -30619593.04 0.2748 0.2026

Venus -88539-08-14 08:51 J -30617221.26 -30617221.13 -30617221.00 0.2585 0.1582

Mercury -88538-02-08 00:56 J -30617043.54 -30617043.46 -30617043.39 0.2754 0.2088

Mercury -88535-08-17 05:01 J -30615757.43 -30615757.29 -30615757.15 0.2587 0.0162

Mercury -88525-02-10 21:06 J -30612292.73 -30612292.62 -30612292.50 0.2752 0.0651

Mercury -88522-08-20 05:15 J -30611006.38 -30611006.28 -30611006.18 0.2589 0.1780

Mercury -88512-02-12 17:44 J -30607541.88 -30607541.76 -30607541.65 0.2750 0.0825

Mercury -88502-08-15 10:03 J -30603706.20 -30603706.08 -30603705.95 0.2585 0.1160

Mercury -88499-02-15 14:23 J -30602790.96 -30602790.90 -30602790.84 0.2748 0.2331

Mercury -88492-02-08 05:59 J -30600241.34 -30600241.25 -30600241.16 0.2754 0.1789

Mercury -88489-08-17 10:47 J -30598955.19 -30598955.05 -30598954.91 0.2587 0.0508

Mercury -88479-02-11 02:23 J -30595490.52 -30595490.40 -30595490.28 0.2752 0.0351

Mercury -88476-08-20 11:01 J -30594204.12 -30594204.04 -30594203.96 0.2589 0.2123

Mercury -88469-08-12 15:06 J -30591654.90 -30591654.87 -30591654.84 0.2584 0.2506

Mercury -88466-02-13 22:47 J -30590739.65 -30590739.55 -30590739.44 0.2750 0.1136

Mercury -88456-08-15 16:03 J -30586903.97 -30586903.83 -30586903.70 0.2585 0.0806

Mercury -88453-02-16 19:39 J -30585988.71 -30585988.68 -30585988.65 0.2747 0.2640

Mercury -88446-02-09 11:01 J -30583439.13 -30583439.04 -30583438.94 0.2754 0.1503

Mercury -88443-08-18 16:32 J -30582152.95 -30582152.81 -30582152.68 0.2587 0.0853

Mercury -88433-02-12 07:25 J -30578688.30 -30578688.19 -30578688.07 0.2752 0.0116

Mercury -88430-08-21 16:47 J -30577401.84 -30577401.80 -30577401.76 0.2589 0.2460

Mercury -88423-08-13 20:51 J -30574852.70 -30574852.63 -30574852.55 0.2584 0.2152

Mercury -88420-02-14 04:03 J -30573937.43 -30573937.33 -30573937.23 0.2750 0.1439

Venus -88417-02-11 09:49 J -30572845.23 -30572845.09 -30572844.95 0.2752 0.1194

Mercury -88413-02-07 20:08 J -30571387.69 -30571387.66 -30571387.63 0.2755 0.2630

Mercury -88410-08-16 21:49 J -30570101.73 -30570101.59 -30570101.45 0.2586 0.0457

Mercury -88400-02-09 16:18 J -30566636.93 -30566636.82 -30566636.72 0.2753 0.1205

Mercury -88397-08-18 22:18 J -30565350.70 -30565350.57 -30565350.45 0.2588 0.1198

Mercury -88387-02-12 12:42 J -30561886.09 -30561885.97 -30561885.85 0.2751 0.0255

Mercury -88377-08-14 02:51 J -30558050.48 -30558050.38 -30558050.28 0.2584 0.1785

Mercury -88374-02-15 09:20 J -30557135.20 -30557135.11 -30557135.02 0.2749 0.1747

Mercury -88367-02-08 01:11 J -30554585.51 -30554585.45 -30554585.39 0.2755 0.2339

Mercury -88364-08-17 03:35 J -30553299.49 -30553299.35 -30553299.21 0.2586 0.0102

Mercury -88354-02-10 21:20 J -30549834.72 -30549834.61 -30549834.50 0.2753 0.0912

Mercury -88351-08-20 03:49 J -30548548.45 -30548548.34 -30548548.22 0.2588 0.1539

Mercury -88341-02-13 17:59 J -30545083.87 -30545083.75 -30545083.64 0.2751 0.0566

Mercury -88331-08-15 08:37 J -30541248.26 -30541248.14 -30541248.02 0.2585 0.1432

Mercury -88328-02-15 14:23 J -30540332.97 -30540332.90 -30540332.82 0.2749 0.2052

Mercury -88321-02-09 06:13 J -30537783.31 -30537783.24 -30537783.16 0.2754 0.2048

Mercury -88318-08-18 09:20 J -30536497.25 -30536497.11 -30536496.97 0.2586 0.0250

Mercury -88308-02-11 02:37 J -30533032.51 -30533032.39 -30533032.28 0.2753 0.0612

Mercury -88305-08-20 09:49 J -30531746.19 -30531746.09 -30531746.00 0.2588 0.1883

Venus -88304-08-16 18:27 J -30531384.80 -30531384.73 -30531384.65 0.2585 0.2306

Venus -88296-08-14 11:30 J -30528465.16 -30528465.02 -30528464.88 0.2584 0.1376

Mercury -88295-02-13 23:01 J -30528281.65 -30528281.54 -30528281.43 0.2751 0.0857

Mercury -88285-08-15 14:23 J -30524446.03 -30524445.90 -30524445.77 0.2585 0.1072

Mercury -88282-02-16 19:39 J -30523530.74 -30523530.68 -30523530.62 0.2748 0.2360

Mercury -88275-02-09 11:30 J -30520981.11 -30520981.02 -30520980.94 0.2754 0.1763

Mercury -88272-08-18 15:06 J -30519695.01 -30519694.87 -30519694.73 0.2587 0.0596

Mercury -88262-02-12 07:39 J -30516230.29 -30516230.18 -30516230.06 0.2752 0.0319

Mercury -88259-08-21 15:20 J -30514943.93 -30514943.86 -30514943.79 0.2589 0.2220

Mercury -88252-08-13 19:11 J -30512394.74 -30512394.70 -30512394.65 0.2583 0.2432

Mercury -88249-02-15 04:18 J -30511479.43 -30511479.32 -30511479.22 0.2750 0.1166

Mercury -88239-08-16 20:08 J -30507643.79 -30507643.66 -30507643.52 0.2585 0.0724

Mercury -88236-02-17 00:56 J -30506728.49 -30506728.46 -30506728.44 0.2748 0.2666

Mercury -88229-02-10 16:32 J -30504178.91 -30504178.81 -30504178.71 0.2754 0.1466

Mercury -88226-08-19 20:51 J -30502892.76 -30502892.63 -30502892.50 0.2587 0.0947

Mercury -88216-02-12 12:56 J -30499428.08 -30499427.96 -30499427.85 0.2752 0.0088

Mercury -88213-08-21 21:06 J -30498141.63 -30498141.62 -30498141.60 0.2589 0.2560

Mercury -88206-08-15 01:11 J -30495592.53 -30495592.45 -30495592.36 0.2584 0.2063

Mercury -88203-02-15 09:20 J -30494677.21 -30494677.11 -30494677.01 0.2750 0.1464

Mercury -88196-02-08 01:25 J -30492127.47 -30492127.44 -30492127.40 0.2755 0.2589

Mercury -88193-08-17 02:08 J -30490841.55 -30490841.41 -30490841.27 0.2585 0.0365

Mercury -88183-02-10 21:49 J -30487376.70 -30487376.59 -30487376.49 0.2754 0.1171

Mercury -88180-08-20 02:37 J -30486090.51 -30486090.39 -30486090.27 0.2587 0.1290

Venus -88174-02-11 08:51 J -30484089.28 -30484089.13 -30484088.98 0.2753 0.0701

Mercury -88170-02-13 17:59 J -30482625.87 -30482625.75 -30482625.63 0.2752 0.0290

Mercury -88160-08-15 06:56 J -30478790.31 -30478790.21 -30478790.10 0.2584 0.1708

Mercury -88157-02-16 14:37 J -30477874.98 -30477874.89 -30477874.80 0.2750 0.1769

Mercury -88150-02-09 06:42 J -30475325.28 -30475325.22 -30475325.16 0.2755 0.2299

Mercury -88147-08-18 07:54 J -30474039.31 -30474039.17 -30474039.03 0.2586 0.0025

Mercury -88137-02-12 02:51 J -30470574.49 -30470574.38 -30470574.27 0.2753 0.0869

Mercury -88134-08-21 08:23 J -30469288.26 -30469288.15 -30469288.04 0.2588 0.1642

Mercury -88124-02-13 23:15 J -30465823.65 -30465823.53 -30465823.42 0.2751 0.0590

Mercury -88114-08-16 12:56 J -30461988.08 -30461987.96 -30461987.84 0.2584 0.1348

Mercury -88111-02-16 19:39 J -30461072.75 -30461072.68 -30461072.60 0.2749 0.2082

Mercury -88104-02-09 11:44 J -30458523.09 -30458523.01 -30458522.93 0.2755 0.2010

Mercury -88101-08-18 13:39 J -30457237.07 -30457236.93 -30457236.79 0.2586 0.0341

Mercury -88091-02-12 07:54 J -30453772.28 -30453772.17 -30453772.05 0.2753 0.0582

Mercury -88088-08-21 14:08 J -30452486.00 -30452485.91 -30452485.82 0.2588 0.1982

Mercury -88078-02-15 04:18 J -30449021.43 -30449021.32 -30449021.20 0.2751 0.0897

Mercury -88068-08-16 18:42 J -30445185.85 -30445185.72 -30445185.59 0.2585 0.0997

Mercury -88065-02-18 00:56 J -30444270.52 -30444270.46 -30444270.40 0.2749 0.2387

Venus -88061-08-16 21:20 J -30442628.65 -30442628.61 -30442628.58 0.2585 0.2504

Mercury -88058-02-10 16:47 J -30441720.89 -30441720.80 -30441720.71 0.2754 0.1724

Mercury -88055-08-19 19:25 J -30440434.83 -30440434.69 -30440434.55 0.2586 0.0690

Venus -88053-08-14 13:54 J -30439709.06 -30439708.92 -30439708.77 0.2583 0.1193

Mercury -88045-02-13 13:11 J -30436970.07 -30436969.95 -30436969.84 0.2753 0.0289

Mercury -88042-08-22 19:54 J -30435683.73 -30435683.67 -30435683.61 0.2588 0.2325

Mercury -88035-08-14 23:30 J -30433134.58 -30433134.52 -30433134.46 0.2583 0.2354

Mercury -88032-02-15 09:35 J -30432219.21 -30432219.10 -30432219.00 0.2751 0.1191

Mercury -88022-08-18 00:27 J -30428383.62 -30428383.48 -30428383.34 0.2585 0.0632

Mercury -88019-02-18 06:13 J -30427468.26 -30427468.24 -30427468.22 0.2748 0.2695

Mercury -88012-02-10 22:03 J -30424918.68 -30424918.58 -30424918.48 0.2754 0.1426

Mercury -88009-08-20 01:11 J -30423632.58 -30423632.45 -30423632.32 0.2587 0.1036

88TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 88th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
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Mercury -87999-02-13 18:13 J -30420167.86 -30420167.74 -30420167.62 0.2752 0.0041

Mercury -87989-08-15 05:15 J -30416332.37 -30416332.28 -30416332.19 0.2583 0.1990

Mercury -87986-02-16 14:37 J -30415416.99 -30415416.89 -30415416.79 0.2750 0.1494

Mercury -87979-02-09 06:56 J -30412867.25 -30412867.21 -30412867.17 0.2755 0.2555

Mercury -87976-08-18 06:13 J -30411581.38 -30411581.24 -30411581.09 0.2585 0.0284

Mercury -87966-02-12 03:06 J -30408116.48 -30408116.37 -30408116.26 0.2754 0.1133

Mercury -87963-08-21 06:56 J -30406830.33 -30406830.21 -30406830.09 0.2587 0.1392

Mercury -87953-02-14 23:30 J -30403365.64 -30403365.52 -30403365.41 0.2752 0.0334

Mercury -87943-08-16 11:15 J -30399530.14 -30399530.03 -30399529.92 0.2584 0.1627

Mercury -87940-02-16 19:54 J -30398614.76 -30398614.67 -30398614.58 0.2750 0.1800

Mercury -87933-02-10 12:13 J -30396065.06 -30396064.99 -30396064.93 0.2755 0.2264

Venus -87931-02-11 07:54 J -30395333.33 -30395333.17 -30395333.02 0.2754 0.0223

Mercury -87930-08-19 12:13 J -30394779.14 -30394778.99 -30394778.85 0.2585 0.0097

Mercury -87920-02-12 08:08 J -30391314.27 -30391314.16 -30391314.04 0.2753 0.0847

Mercury -87917-08-21 12:42 J -30390028.07 -30390027.97 -30390027.86 0.2587 0.1737

Mercury -87907-02-15 04:32 J -30386563.42 -30386563.31 -30386563.19 0.2752 0.0618

Mercury -87897-08-16 17:01 J -30382727.91 -30382727.79 -30382727.67 0.2584 0.1267

Mercury -87894-02-18 00:56 J -30381812.53 -30381812.46 -30381812.38 0.2750 0.2111

Mercury -87887-02-10 17:15 J -30379262.86 -30379262.78 -30379262.70 0.2755 0.1970

Mercury -87884-08-19 17:59 J -30377976.89 -30377976.75 -30377976.61 0.2586 0.0434

Mercury -87874-02-13 13:25 J -30374512.06 -30374511.94 -30374511.83 0.2753 0.0543

Mercury -87871-08-22 18:42 J -30373225.81 -30373225.72 -30373225.64 0.2588 0.2091

Mercury -87861-02-16 09:35 J -30369761.21 -30369761.10 -30369760.98 0.2751 0.0924

Mercury -87851-08-17 23:01 J -30365925.68 -30365925.54 -30365925.41 0.2584 0.0903

Mercury -87848-02-18 06:13 J -30365010.29 -30365010.24 -30365010.18 0.2749 0.2410

Mercury -87841-02-11 22:18 J -30362460.66 -30362460.57 -30362460.48 0.2755 0.1678

Mercury -87838-08-20 23:44 J -30361174.64 -30361174.51 -30361174.37 0.2586 0.0788

Mercury -87828-02-13 18:27 J -30357709.84 -30357709.73 -30357709.61 0.2753 0.0256

Mercury -87825-08-23 00:13 J -30356423.53 -30356423.49 -30356423.44 0.2588 0.2428

Mercury -87818-08-16 03:35 J -30353874.42 -30353874.35 -30353874.29 0.2583 0.2278

Mercury -87815-02-16 14:51 J -30352958.98 -30352958.88 -30352958.77 0.2751 0.1223

Venus -87810-08-15 16:47 J -30350952.95 -30350952.80 -30350952.65 0.2583 0.0973

Mercury -87805-08-18 04:47 J -30349123.44 -30349123.30 -30349123.16 0.2585 0.0550

Mercury -87802-02-19 11:30 J -30348208.04 -30348208.02 -30348208.01 0.2749 0.2719

Mercury -87795-02-12 03:35 J -30345658.45 -30345658.35 -30345658.25 0.2754 0.1391

Mercury -87792-08-21 05:30 J -30344372.39 -30344372.27 -30344372.14 0.2586 0.1143

Mercury -87782-02-14 23:44 J -30340907.63 -30340907.51 -30340907.40 0.2753 0.0094

Mercury -87772-08-16 09:20 J -30337072.20 -30337072.11 -30337072.01 0.2583 0.1918

Mercury -87769-02-17 20:08 J -30336156.76 -30336156.66 -30336156.57 0.2751 0.1530

Mercury -87762-02-10 12:27 J -30333607.02 -30333606.98 -30333606.93 0.2756 0.2514

Mercury -87759-08-19 10:32 J -30332321.20 -30332321.06 -30332320.92 0.2585 0.0188

Mercury -87749-02-13 08:37 J -30328856.25 -30328856.14 -30328856.04 0.2754 0.1098

Mercury -87746-08-22 11:15 J -30327570.14 -30327570.03 -30327569.91 0.2587 0.1488

Mercury -87736-02-15 04:47 J -30324105.42 -30324105.30 -30324105.18 0.2752 0.0352

Mercury -87726-08-17 15:20 J -30320269.98 -30320269.86 -30320269.75 0.2584 0.1550

Mercury -87723-02-18 01:11 J -30319354.53 -30319354.45 -30319354.36 0.2750 0.1834

Mercury -87716-02-10 17:44 J -30316804.83 -30316804.76 -30316804.70 0.2755 0.2222

Mercury -87713-08-19 16:18 J -30315518.96 -30315518.82 -30315518.68 0.2585 0.0170

Mercury -87703-02-13 13:39 J -30312054.04 -30312053.93 -30312053.82 0.2754 0.0805

Mercury -87700-08-22 17:01 J -30310767.88 -30310767.79 -30310767.69 0.2587 0.1841

Mercury -87690-02-16 10:03 J -30307303.20 -30307303.08 -30307302.97 0.2752 0.0659

Venus -87688-02-11 06:56 J -30306577.36 -30306577.21 -30306577.05 0.2755 0.0266

Mercury -87680-08-17 21:20 J -30303467.74 -30303467.61 -30303467.49 0.2584 0.1181

Mercury -87677-02-19 06:27 J -30302552.31 -30302552.23 -30302552.16 0.2750 0.2134

Mercury -87670-02-11 22:47 J -30300002.63 -30300002.55 -30300002.47 0.2755 0.1935

Mercury -87667-08-20 22:18 J -30298716.71 -30298716.57 -30298716.43 0.2585 0.0532

Mercury -87657-02-14 18:56 J -30295251.83 -30295251.71 -30295251.60 0.2753 0.0510

Mercury -87654-08-23 22:47 J -30293965.62 -30293965.55 -30293965.47 0.2587 0.2184

Mercury -87647-08-16 01:54 J -30291416.44 -30291416.42 -30291416.41 0.2583 0.2568

Mercury -87644-02-16 15:06 J -30290500.98 -30290500.87 -30290500.76 0.2752 0.0953

Mercury -87634-08-19 03:06 J -30286665.51 -30286665.37 -30286665.23 0.2584 0.0816

Mercury -87631-02-19 11:30 J -30285750.07 -30285750.02 -30285749.97 0.2750 0.2441

Mercury -87624-02-12 03:49 J -30283200.43 -30283200.34 -30283200.25 0.2755 0.1644

Mercury -87621-08-21 04:03 J -30281914.46 -30281914.33 -30281914.19 0.2586 0.0887

Mercury -87611-02-14 23:59 J -30278449.62 -30278449.50 -30278449.38 0.2753 0.0211

Mercury -87608-08-24 04:47 J -30277163.33 -30277163.30 -30277163.28 0.2588 0.2538

Mercury -87601-08-16 07:39 J -30274614.25 -30274614.18 -30274614.11 0.2583 0.2200

Mercury -87598-02-17 20:23 J -30273698.76 -30273698.65 -30273698.55 0.2751 0.1260

Mercury -87588-08-19 09:06 J -30269863.27 -30269863.12 -30269862.98 0.2584 0.0461

Mercury -87585-02-20 16:47 J -30268947.80 -30268947.80 -30268947.80 0.2749 0.2749

Mercury -87578-02-13 08:51 J -30266398.23 -30266398.13 -30266398.02 0.2755 0.1354

Mercury -87575-08-22 09:49 J -30265112.21 -30265112.09 -30265111.96 0.2586 0.1239

Venus -87567-08-15 19:11 J -30262196.85 -30262196.70 -30262196.54 0.2582 0.0784

Mercury -87565-02-16 05:01 J -30261647.40 -30261647.29 -30261647.17 0.2753 0.0121

Mercury -87555-08-17 13:39 J -30257812.03 -30257811.93 -30257811.83 0.2583 0.1831

Mercury -87552-02-18 01:25 J -30256896.54 -30256896.44 -30256896.34 0.2751 0.1555

Mercury -87545-02-11 17:59 J -30254346.79 -30254346.75 -30254346.70 0.2756 0.2469

Mercury -87542-08-20 14:51 J -30253061.03 -30253060.88 -30253060.74 0.2585 0.0112

Mercury -87532-02-13 14:08 J -30249596.02 -30249595.91 -30249595.80 0.2754 0.1059

Mercury -87529-08-22 15:35 J -30248309.96 -30248309.85 -30248309.74 0.2586 0.1589

Mercury -87519-02-16 10:18 J -30244845.19 -30244845.07 -30244844.96 0.2753 0.0390

Mercury -87509-08-17 19:25 J -30241009.80 -30241009.69 -30241009.57 0.2583 0.1464

Mercury -87506-02-19 06:27 J -30240094.31 -30240094.23 -30240094.14 0.2751 0.1861

Mercury -87499-02-11 23:15 J -30237544.60 -30237544.53 -30237544.46 0.2755 0.2185

Mercury -87496-08-20 20:37 J -30236258.78 -30236258.64 -30236258.50 0.2585 0.0267

Mercury -87486-02-14 19:11 J -30232793.81 -30232793.70 -30232793.59 0.2754 0.0761

Mercury -87483-08-23 21:20 J -30231507.70 -30231507.61 -30231507.51 0.2586 0.1939

Mercury -87473-02-17 15:20 J -30228042.97 -30228042.86 -30228042.74 0.2752 0.0690

Mercury -87463-08-19 01:25 J -30224207.57 -30224207.44 -30224207.31 0.2584 0.1100

Mercury -87460-02-19 11:44 J -30223292.08 -30223292.01 -30223291.94 0.2750 0.2166

Mercury -87453-02-13 04:18 J -30220742.40 -30220742.32 -30220742.24 0.2755 0.1892

Mercury -87450-08-22 02:23 J -30219456.53 -30219456.40 -30219456.26 0.2585 0.0624

Venus -87445-02-12 06:13 J -30217821.39 -30217821.24 -30217821.09 0.2756 0.0732

Mercury -87440-02-15 00:13 J -30215991.60 -30215991.49 -30215991.37 0.2754 0.0481

Mercury -87437-08-24 03:20 J -30214705.43 -30214705.36 -30214705.30 0.2587 0.2292

Mercury -87430-08-17 05:44 J -30212156.29 -30212156.26 -30212156.22 0.2583 0.2495

Mercury -87427-02-17 20:37 J -30211240.75 -30211240.64 -30211240.53 0.2752 0.0992

Mercury -87417-08-19 07:11 J -30207405.33 -30207405.20 -30207405.06 0.2584 0.0737

Mercury -87414-02-20 17:01 J -30206489.84 -30206489.79 -30206489.74 0.2750 0.2476

Mercury -87407-02-13 09:20 J -30203940.20 -30203940.11 -30203940.01 0.2755 0.1603

Mercury -87404-08-22 08:23 J -30202654.29 -30202654.15 -30202654.02 0.2585 0.0978

Mercury -87394-02-16 05:30 J -30199189.39 -30199189.27 -30199189.16 0.2753 0.0179

Mercury -87384-08-17 11:44 J -30195354.09 -30195354.01 -30195353.93 0.2583 0.2119

Mercury -87381-02-19 01:39 J -30194438.53 -30194438.43 -30194438.33 0.2751 0.1287

Mercury -87374-02-11 18:42 J -30191888.74 -30191888.72 -30191888.71 0.2756 0.2716

Mercury -87371-08-20 13:11 J -30190603.10 -30190602.95 -30190602.81 0.2584 0.0375

Mercury -87361-02-14 14:23 J -30187138.00 -30187137.90 -30187137.79 0.2755 0.1316

Mercury -87358-08-23 14:08 J -30185852.03 -30185851.91 -30185851.79 0.2586 0.1330

Mercury -87348-02-16 10:32 J -30182387.18 -30182387.06 -30182386.94 0.2753 0.0125

Mercury -87338-08-18 17:44 J -30178551.87 -30178551.76 -30178551.65 0.2583 0.1746

Mercury -87335-02-19 06:42 J -30177636.31 -30177636.22 -30177636.12 0.2751 0.1592

Mercury -87328-02-11 23:44 J -30175086.56 -30175086.51 -30175086.46 0.2756 0.2430

Mercury -87325-08-20 18:56 J -30173800.85 -30173800.71 -30173800.56 0.2584 0.0060

Venus -87324-08-15 22:03 J -30173440.74 -30173440.58 -30173440.42 0.2582 0.0566

Mercury -87315-02-14 19:39 J -30170335.79 -30170335.68 -30170335.58 0.2754 0.1023

Mercury -87312-08-23 19:54 J -30169049.78 -30169049.67 -30169049.56 0.2586 0.1687

Mercury -87302-02-17 15:35 J -30165584.96 -30165584.85 -30165584.73 0.2753 0.0433

Mercury -87292-08-18 23:30 J -30161749.64 -30161749.52 -30161749.39 0.2583 0.1384

Mercury -87289-02-20 11:59 J -30160834.09 -30160834.00 -30160833.92 0.2751 0.1889

Mercury -87282-02-13 04:47 J -30158284.37 -30158284.30 -30158284.23 0.2756 0.2138

Mercury -87279-08-22 00:56 J -30156998.61 -30156998.46 -30156998.32 0.2585 0.0362

Mercury -87269-02-16 00:42 J -30153533.58 -30153533.47 -30153533.36 0.2754 0.0725

Mercury -87266-08-25 01:54 J -30152247.51 -30152247.42 -30152247.34 0.2586 0.2044

Mercury -87256-02-17 20:51 J -30148782.75 -30148782.63 -30148782.52 0.2753 0.0719

Mercury -87246-08-20 05:30 J -30144947.40 -30144947.27 -30144947.14 0.2583 0.1014

Mercury -87243-02-20 17:01 J -30144031.86 -30144031.79 -30144031.72 0.2751 0.2197

Mercury -87236-02-13 09:49 J -30141482.17 -30141482.09 -30141482.00 0.2755 0.1851

Mercury -87233-08-22 06:42 J -30140196.36 -30140196.22 -30140196.08 0.2585 0.0714

Mercury -87223-02-16 05:44 J -30136731.37 -30136731.26 -30136731.14 0.2754 0.0437

Mercury -87220-08-25 07:39 J -30135445.23 -30135445.18 -30135445.13 0.2587 0.2393

Mercury -87213-08-17 09:49 J -30132896.13 -30132896.09 -30132896.04 0.2582 0.2417

Mercury -87210-02-19 01:54 J -30131980.53 -30131980.42 -30131980.31 0.2752 0.1024

Venus -87202-02-12 05:44 J -30129065.40 -30129065.26 -30129065.12 0.2756 0.1178

Mercury -87200-08-20 11:15 J -30128145.17 -30128145.03 -30128144.89 0.2584 0.0654

Mercury -87197-02-21 22:18 J -30127229.62 -30127229.57 -30127229.52 0.2750 0.2498

Mercury -87190-02-14 14:51 J -30124679.97 -30124679.88 -30124679.78 0.2755 0.1563

Mercury -87187-08-23 12:27 J -30123394.11 -30123393.98 -30123393.85 0.2585 0.1073

Mercury -87177-02-17 11:01 J -30119929.16 -30119929.04 -30119928.93 0.2754 0.0157

Mercury -87167-08-18 15:49 J -30116093.93 -30116093.84 -30116093.75 0.2583 0.2045

Mercury -87164-02-19 07:11 J -30115178.31 -30115178.20 -30115178.10 0.2752 0.1324

Mercury -87157-02-13 00:13 J -30112628.52 -30112628.49 -30112628.47 0.2756 0.2669

Mercury -87154-08-21 17:15 J -30111342.92 -30111342.78 -30111342.64 0.2584 0.0281

Mercury -87144-02-14 20:08 J -30107877.77 -30107877.66 -30107877.56 0.2755 0.1276

Mercury -87141-08-23 18:27 J -30106591.85 -30106591.73 -30106591.61 0.2585 0.1431

Mercury -87131-02-17 16:03 J -30103126.95 -30103126.83 -30103126.71 0.2753 0.0163

Mercury -87121-08-18 21:49 J -30099291.70 -30099291.59 -30099291.49 0.2583 0.1678

Mercury -87118-02-20 12:13 J -30098376.08 -30098375.99 -30098375.89 0.2751 0.1621

Mercury -87111-02-13 05:15 J -30095826.33 -30095826.28 -30095826.22 0.2756 0.2386

Mercury -87108-08-21 23:01 J -30094540.68 -30094540.54 -30094540.39 0.2584 0.0098

Mercury -87098-02-16 01:11 J -30091075.56 -30091075.45 -30091075.34 0.2755 0.0979

Mercury -87095-08-25 00:13 J -30089789.59 -30089789.49 -30089789.39 0.2586 0.1786

Mercury -87085-02-18 21:06 J -30086324.73 -30086324.62 -30086324.50 0.2753 0.0457

Venus -87081-08-16 00:27 J -30084684.64 -30084684.48 -30084684.32 0.2581 0.0384

Mercury -87075-08-20 03:35 J -30082489.47 -30082489.35 -30082489.22 0.2583 0.1303

Mercury -87072-02-20 17:30 J -30081573.86 -30081573.77 -30081573.69 0.2751 0.1926

Mercury -87065-02-14 10:18 J -30079024.14 -30079024.07 -30079024.00 0.2756 0.2101

Mercury -87062-08-23 05:01 J -30077738.43 -30077738.29 -30077738.15 0.2584 0.0443

Mercury -87052-02-16 06:13 J -30074273.35 -30074273.24 -30074273.13 0.2754 0.0690

Mercury -87049-08-25 05:59 J -30072987.33 -30072987.25 -30072987.17 0.2586 0.2137

Mercury -87039-02-19 02:23 J -30069522.52 -30069522.40 -30069522.29 0.2753 0.0759

Mercury -87029-08-20 09:35 J -30065687.24 -30065687.10 -30065686.97 0.2583 0.0934

Mercury -87026-02-21 22:32 J -30064771.63 -30064771.56 -30064771.49 0.2751 0.2225

Mercury -87019-02-14 15:20 J -30062221.94 -30062221.86 -30062221.77 0.2755 0.1814

Mercury -87016-08-23 10:47 J -30060936.18 -30060936.05 -30060935.91 0.2585 0.0807

Mercury -87006-02-17 11:15 J -30057471.14 -30057471.03 -30057470.91 0.2754 0.0400

Mercury -87003-08-26 11:44 J -30056185.04 -30056185.01 -30056184.97 0.2586 0.2495

87TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 87th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-86996-08-18 13:54 J	-30053635.98	-30053635.92	-30053635.86	0.2582	0.2345		
Mercury	-86993-02-20 07:25 J	-30052720.30	-30052720.19	-30052720.08	0.2752	0.1051		
Mercury	-86983-08-21 15:35 J	-30048884.99	-30048884.85	-30048884.71	0.2583	0.0561		

Mercury -86980-02-22 03:35 J -30047969.39 -30047969.35 -30047969.30 0.2751 0.2530

Mercury -86973-02-15 20:23 J -30045419.74 -30045419.65 -30045419.55 0.2755 0.1526

Mercury -86970-08-24 16:47 J -30044133.93 -30044133.80 -30044133.67 0.2585 0.1170

Mercury -86960-02-17 16:32 J -30040668.93 -30040668.81 -30040668.70 0.2754 0.0138

Venus -86959-02-12 05:01 J -30040309.41 -30040309.29 -30040309.17 0.2757 0.1663

Mercury -86950-08-19 19:54 J -30036833.77 -30036833.67 -30036833.58 0.2582 0.1969

Mercury -86947-02-20 12:27 J -30035918.08 -30035917.98 -30035917.88 0.2752 0.1353

Mercury -86940-02-13 05:44 J -30033368.29 -30033368.26 -30033368.23 0.2756 0.2629

Mercury -86937-08-21 21:20 J -30032082.75 -30032082.61 -30032082.46 0.2584 0.0197

Mercury -86927-02-16 01:39 J -30028617.54 -30028617.43 -30028617.33 0.2755 0.1230

Mercury -86924-08-24 22:32 J -30027331.67 -30027331.56 -30027331.44 0.2585 0.1532

Mercury -86914-02-18 21:35 J -30023866.72 -30023866.60 -30023866.48 0.2754 0.0198

Mercury -86904-08-20 01:39 J -30020031.54 -30020031.43 -30020031.31 0.2583 0.1598

Mercury -86901-02-21 17:44 J -30019115.86 -30019115.76 -30019115.67 0.2752 0.1653

Mercury -86894-02-14 10:47 J -30016566.10 -30016566.05 -30016565.99 0.2756 0.2345

Mercury -86891-08-23 03:20 J -30015280.51 -30015280.36 -30015280.22 0.2584 0.0176

Mercury -86881-02-17 06:42 J -30011815.33 -30011815.22 -30011815.11 0.2755 0.0943

Mercury -86878-08-26 04:32 J -30010529.41 -30010529.31 -30010529.22 0.2585 0.1885

Mercury -86868-02-19 02:37 J -30007064.50 -30007064.39 -30007064.27 0.2753 0.0496

Mercury -86858-08-21 07:39 J -30003229.31 -30003229.18 -30003229.05 0.2583 0.1226

Mercury -86855-02-21 22:47 J -30002313.63 -30002313.55 -30002313.47 0.2752 0.1957

Mercury -86848-02-14 15:49 J -29999763.91 -29999763.84 -29999763.76 0.2756 0.2062

Mercury -86845-08-23 09:06 J -29998478.26 -29998478.12 -29998477.98 0.2584 0.0530

Venus -86838-08-17 02:51 J -29995928.54 -29995928.38 -29995928.22 0.2581 0.0184

Mercury -86835-02-17 11:44 J -29995013.12 -29995013.01 -29995012.90 0.2754 0.0653

Mercury -86832-08-26 10:18 J -29993727.14 -29993727.07 -29993727.00 0.2586 0.2241

Mercury -86822-02-20 07:39 J -29990262.29 -29990262.18 -29990262.06 0.2753 0.0793

Mercury -86812-08-21 13:39 J -29986427.07 -29986426.93 -29986426.80 0.2583 0.0852

Mercury -86809-02-23 03:49 J -29985511.40 -29985511.34 -29985511.27 0.2751 0.2257

Mercury -86802-02-15 20:51 J -29982961.71 -29982961.63 -29982961.54 0.2756 0.1776

Mercury -86799-08-24 15:06 J -29981676.01 -29981675.87 -29981675.74 0.2584 0.0900

Mercury -86789-02-18 16:47 J -29978210.91 -29978210.80 -29978210.68 0.2754 0.0368

Mercury -86779-08-19 17:44 J -29974375.82 -29974375.76 -29974375.69 0.2582 0.2270

Mercury -86776-02-20 12:56 J -29973460.07 -29973459.96 -29973459.86 0.2753 0.1086

Mercury -86766-08-22 19:25 J -29969624.83 -29969624.69 -29969624.54 0.2583 0.0486

Mercury -86763-02-23 09:06 J -29968709.16 -29968709.12 -29968709.08 0.2751 0.2555

Mercury -86756-02-16 02:08 J -29966159.51 -29966159.41 -29966159.32 0.2755 0.1487

Mercury -86753-08-24 20:51 J -29964873.75 -29964873.63 -29964873.50 0.2585 0.1259

Mercury -86743-02-18 22:03 J -29961408.70 -29961408.58 -29961408.47 0.2754 0.0112

Mercury -86733-08-19 23:44 J -29957573.61 -29957573.51 -29957573.41 0.2582 0.1897

Mercury -86730-02-21 17:59 J -29956657.85 -29956657.75 -29956657.65 0.2752 0.1382

Venus -86724-02-14 14:23 J -29954472.95 -29954472.90 -29954472.85 0.2756 0.2586

Mercury -86723-02-14 11:30 J -29954108.06 -29954108.02 -29954107.99 0.2756 0.2593

Mercury -86720-08-23 01:25 J -29952822.58 -29952822.44 -29952822.29 0.2584 0.0113

Venus -86716-02-12 04:32 J -29951553.41 -29951553.31 -29951553.21 0.2757 0.2097

Mercury -86710-02-17 07:11 J -29949357.31 -29949357.20 -29949357.10 0.2755 0.1198

Mercury -86707-08-26 02:51 J -29948071.49 -29948071.38 -29948071.27 0.2585 0.1623

Mercury -86697-02-20 03:06 J -29944606.49 -29944606.37 -29944606.26 0.2754 0.0234

Mercury -86687-08-21 05:44 J -29940771.38 -29940771.26 -29940771.14 0.2582 0.1515

Mercury -86684-02-21 23:01 J -29939855.63 -29939855.54 -29939855.44 0.2752 0.1688

Mercury -86677-02-15 16:32 J -29937305.87 -29937305.81 -29937305.75 0.2756 0.2301

Mercury -86674-08-24 07:25 J -29936020.34 -29936020.19 -29936020.05 0.2584 0.0262

Mercury -86664-02-17 12:13 J -29932555.10 -29932554.99 -29932554.88 0.2755 0.0906

Mercury -86661-08-26 08:37 J -29931269.23 -29931269.14 -29931269.05 0.2585 0.1982

Mercury -86651-02-20 08:08 J -29927804.27 -29927804.16 -29927804.05 0.2753 0.0522

Mercury -86641-08-21 11:44 J -29923969.14 -29923969.01 -29923968.88 0.2583 0.1142

Mercury -86638-02-23 04:18 J -29923053.40 -29923053.32 -29923053.24 0.2752 0.1981

Mercury -86631-02-15 21:35 J -29920503.68 -29920503.60 -29920503.52 0.2756 0.2016

Mercury -86628-08-24 13:11 J -29919218.09 -29919217.95 -29919217.81 0.2584 0.0632

Mercury -86618-02-18 17:15 J -29915752.89 -29915752.78 -29915752.66 0.2755 0.0615

Mercury -86615-08-27 14:23 J -29914466.96 -29914466.90 -29914466.84 0.2585 0.2337

Mercury -86608-08-19 15:49 J -29911917.84 -29911917.84 -29911917.84 0.2582 0.2582

Mercury -86605-02-21 13:11 J -29911002.06 -29911001.95 -29911001.84 0.2753 0.0825

Venus -86595-08-17 05:15 J -29907172.44 -29907172.28 -29907172.12 0.2581 0.0017

Mercury -86595-08-22 17:30 J -29907166.91 -29907166.77 -29907166.63 0.2583 0.0773

Mercury -86592-02-23 09:20 J -29906251.17 -29906251.11 -29906251.05 0.2751 0.2280

Mercury -86585-02-17 02:37 J -29903701.48 -29903701.39 -29903701.30 0.2756 0.1733

Mercury -86582-08-25 19:11 J -29902415.84 -29902415.70 -29902415.57 0.2584 0.0988

Mercury -86572-02-18 22:18 J -29898950.68 -29898950.57 -29898950.45 0.2754 0.0337

Mercury -86562-08-20 21:35 J -29895115.67 -29895115.60 -29895115.52 0.2582 0.2208

Mercury -86559-02-21 18:27 J -29894199.84 -29894199.73 -29894199.63 0.2753 0.1123

Mercury -86549-08-22 23:30 J -29890364.66 -29890364.52 -29890364.38 0.2583 0.0401

Mercury -86546-02-24 14:37 J -29889448.93 -29889448.89 -29889448.86 0.2751 0.2588

Mercury -86539-02-17 07:39 J -29886899.28 -29886899.18 -29886899.08 0.2755 0.1447

Mercury -86536-08-26 00:56 J -29885613.58 -29885613.46 -29885613.34 0.2584 0.1351

Mercury -86526-02-20 03:35 J -29882148.47 -29882148.35 -29882148.24 0.2754 0.0114

Mercury -86516-08-21 03:35 J -29878313.45 -29878313.35 -29878313.24 0.2582 0.1822

Mercury -86513-02-22 23:30 J -29877397.62 -29877397.52 -29877397.42 0.2752 0.1416

Mercury -86506-02-15 17:01 J -29874847.83 -29874847.79 -29874847.75 0.2756 0.2545

Mercury -86503-08-24 05:30 J -29873562.42 -29873562.27 -29873562.13 0.2583 0.0078

Mercury -86493-02-18 12:42 J -29870097.07 -29870096.97 -29870096.86 0.2755 0.1158

Mercury -86490-08-27 06:56 J -29868811.32 -29868811.21 -29868811.11 0.2585 0.1710

Venus -86481-02-15 13:25 J -29865717.04 -29865716.94 -29865716.84 0.2756 0.2084

Mercury -86480-02-20 08:37 J -29865346.26 -29865346.14 -29865346.03 0.2754 0.0268

Venus -86473-02-13 03:49 J -29862797.39 -29862797.34 -29862797.29 0.2757 0.2589

Mercury -86470-08-22 09:35 J -29861511.22 -29861511.10 -29861510.98 0.2583 0.1444

Mercury -86467-02-23 04:32 J -29860595.40 -29860595.31 -29860595.22 0.2752 0.1713

Mercury -86460-02-15 22:03 J -29858045.64 -29858045.58 -29858045.52 0.2756 0.2265

Mercury -86457-08-24 11:15 J -29856760.17 -29856760.03 -29856759.88 0.2584 0.0352

Mercury -86447-02-18 17:44 J -29853294.87 -29853294.76 -29853294.65 0.2755 0.0868

Mercury -86444-08-27 12:42 J -29852009.05 -29852008.97 -29852008.88 0.2585 0.2073

Mercury -86434-02-21 13:39 J -29848544.04 -29848543.93 -29848543.82 0.2753 0.0560

Mercury -86424-08-22 15:35 J -29844708.98 -29844708.85 -29844708.72 0.2583 0.1064

Mercury -86421-02-24 09:49 J -29843793.17 -29843793.09 -29843793.02 0.2752 0.2014

Mercury -86414-02-17 03:06 J -29841243.45 -29841243.37 -29841243.29 0.2756 0.1981

Mercury -86411-08-25 17:15 J -29839957.92 -29839957.78 -29839957.64 0.2584 0.0709

Mercury -86401-02-19 22:47 J -29836492.66 -29836492.55 -29836492.43 0.2755 0.0585

Mercury -86398-08-28 18:42 J -29835206.77 -29835206.72 -29835206.68 0.2585 0.2436

Mercury -86391-08-20 19:39 J -29832657.71 -29832657.68 -29832657.65 0.2582 0.2513

Mercury -86388-02-21 18:42 J -29831741.83 -29831741.72 -29831741.61 0.2753 0.0855

Mercury -86378-08-23 21:35 J -29827906.74 -29827906.60 -29827906.46 0.2583 0.0694

Mercury -86375-02-24 14:51 J -29826990.94 -29826990.88 -29826990.82 0.2752 0.2313

Mercury -86368-02-17 08:08 J -29824441.25 -29824441.16 -29824441.07 0.2756 0.1695

Mercury -86365-08-25 23:15 J -29823155.66 -29823155.53 -29823155.40 0.2584 0.1080

Mercury -86355-02-20 03:49 J -29819690.45 -29819690.34 -29819690.22 0.2754 0.0305

Venus -86352-08-17 07:25 J -29818416.35 -29818416.19 -29818416.03 0.2581 0.0160

Mercury -86345-08-21 01:39 J -29815855.51 -29815855.43 -29815855.35 0.2582 0.2129

Mercury -86342-02-22 23:44 J -29814939.61 -29814939.51 -29814939.40 0.2753 0.1150

Mercury -86332-08-24 03:35 J -29811104.50 -29811104.35 -29811104.21 0.2583 0.0330

Mercury -86329-02-25 19:54 J -29810188.70 -29810188.67 -29810188.64 0.2751 0.2613

Mercury -86322-02-18 13:11 J -29807639.04 -29807638.95 -29807638.85 0.2755 0.1407

Mercury -86319-08-27 05:01 J -29806353.41 -29806353.29 -29806353.17 0.2584 0.1438

Mercury -86309-02-21 09:06 J -29802888.24 -29802888.12 -29802888.01 0.2754 0.0063

Mercury -86299-08-22 07:25 J -29799053.29 -29799053.19 -29799053.08 0.2582 0.1752

Mercury -86296-02-23 05:01 J -29798137.39 -29798137.29 -29798137.19 0.2753 0.1446

Mercury -86289-02-16 22:47 J -29795587.60 -29795587.55 -29795587.51 0.2756 0.2506

Mercury -86286-08-25 09:20 J -29794302.25 -29794302.11 -29794301.96 0.2583 0.0090

Mercury -86276-02-18 18:13 J -29790836.84 -29790836.74 -29790836.63 0.2755 0.1122

Mercury -86273-08-27 11:01 J -29789551.14 -29789551.04 -29789550.94 0.2585 0.1810

Mercury -86263-02-21 14:08 J -29786086.03 -29786085.91 -29786085.80 0.2754 0.0303

Mercury -86253-08-22 13:25 J -29782251.06 -29782250.94 -29782250.81 0.2582 0.1374

Mercury -86250-02-24 10:03 J -29781335.17 -29781335.08 -29781334.99 0.2752 0.1745

Mercury -86243-02-17 03:49 J -29778785.41 -29778785.34 -29778785.28 0.2756 0.2225

Mercury -86240-08-25 15:20 J -29777500.00 -29777499.86 -29777499.72 0.2583 0.0424

Venus -86238-02-15 13:11 J -29776961.08 -29776960.95 -29776960.83 0.2757 0.1654

Mercury -86230-02-19 23:30 J -29774034.63 -29774034.52 -29774034.41 0.2755 0.0835

Mercury -86227-08-28 16:47 J -29772748.87 -29772748.80 -29772748.72 0.2585 0.2170

Mercury -86217-02-22 19:11 J -29769283.81 -29769283.70 -29769283.59 0.2754 0.0595

Mercury -86207-08-23 19:25 J -29765448.82 -29765448.69 -29765448.55 0.2583 0.0997

Mercury -86204-02-24 15:06 J -29764532.94 -29764532.87 -29764532.79 0.2752 0.2047

Mercury -86197-02-18 08:51 J -29761983.21 -29761983.13 -29761983.05 0.2756 0.1941

Mercury -86194-08-26 21:20 J -29760697.75 -29760697.61 -29760697.47 0.2584 0.0796

Mercury -86184-02-20 04:32 J -29757232.43 -29757232.31 -29757232.20 0.2755 0.0547

Mercury -86181-08-28 22:47 J -29755946.58 -29755946.55 -29755946.53 0.2585 0.2531

Mercury -86174-08-21 23:30 J -29753397.57 -29753397.52 -29753397.48 0.2582 0.2442

Mercury -86171-02-23 00:13 J -29752481.60 -29752481.49 -29752481.38 0.2753 0.0889

Mercury -86161-08-24 01:25 J -29748646.58 -29748646.44 -29748646.30 0.2583 0.0614

Mercury -86158-02-25 20:23 J -29747730.71 -29747730.65 -29747730.59 0.2752 0.2344

Mercury -86151-02-18 13:54 J -29745181.01 -29745180.92 -29745180.83 0.2755 0.1652

Mercury -86148-08-27 03:06 J -29743895.50 -29743895.37 -29743895.24 0.2584 0.1161

Mercury -86138-02-21 09:35 J -29740430.22 -29740430.10 -29740429.99 0.2754 0.0254

Mercury -86128-08-22 05:15 J -29736595.36 -29736595.28 -29736595.19 0.2582 0.2061

Mercury -86125-02-24 05:15 J -29735679.38 -29735679.28 -29735679.17 0.2753 0.1185

Mercury -86118-02-16 23:15 J -29733129.53 -29733129.53 -29733129.52 0.2756 0.2746

Mercury -86115-08-25 07:25 J -29731844.33 -29731844.19 -29731844.04 0.2583 0.0237

Mercury -86112-02-26 01:25 J -29730928.47 -29730928.44 -29730928.41 0.2752 0.2639

Venus -86109-08-17 09:35 J -29729660.26 -29729660.10 -29729659.93 0.2580 0.0345

Mercury -86105-02-19 18:56 J -29728378.81 -29728378.71 -29728378.61 0.2755 0.1372

Mercury -86102-08-28 09:06 J -29727093.23 -29727093.12 -29727093.00 0.2584 0.1536

Mercury -86092-02-21 14:37 J -29723628.01 -29723627.89 -29723627.78 0.2754 0.0047

Mercury -86082-08-23 11:30 J -29719793.13 -29719793.02 -29719792.91 0.2582 0.1679

Mercury -86079-02-24 10:32 J -29718877.16 -29718877.06 -29718876.97 0.2753 0.1479

Mercury -86072-02-17 04:18 J -29716327.37 -29716327.32 -29716327.27 0.2756 0.2465

Mercury -86069-08-25 13:25 J -29715042.09 -29715041.94 -29715041.80 0.2583 0.0142

Mercury -86059-02-19 23:59 J -29711576.61 -29711576.50 -29711576.40 0.2755 0.1080

Mercury -86056-08-28 15:06 J -29710290.97 -29710290.87 -29710290.78 0.2585 0.1902

Mercury -86046-02-22 19:39 J -29706825.79 -29706825.68 -29706825.56 0.2754 0.0331

Mercury -86036-08-23 17:15 J -29702990.90 -29702990.78 -29702990.65 0.2582 0.1299

Mercury -86033-02-25 15:35 J -29702074.94 -29702074.85 -29702074.76 0.2753 0.1774

Mercury -86026-02-18 09:20 J -29699525.17 -29699525.11 -29699525.04 0.2756 0.2181

Mercury -86023-08-26 19:25 J -29698239.84 -29698239.69 -29698239.55 0.2583 0.0514

Mercury -86013-02-21 05:01 J -29694774.40 -29694774.29 -29694774.18 0.2755 0.0791

Mercury -86010-08-29 20:51 J -29693488.69 -29693488.63 -29693488.56 0.2585 0.2269

86TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 86th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-86000-02-23 00:42 J	-29690023.58	-29690023.47	-29690023.36	0.2754	0.0630		
Venus	-85995-02-15 12:27 J	-29688205.11	-29688204.98	-29688204.84	0.2757	0.1194		
Mercury	-85990-08-24 23:30 J	-29686188.66	-29686188.52	-29686188.39	0.2582	0.0917		
Mercury	-85987-02-25 20:37 J	-29685272.71	-29685272.64	-29685272.56	0.2752	0.2072		
Mercury	-85980-02-18 14:23 J	-29682722.98	-29682722.90	-29682722.81	0.2756	0.1897		
Mercury	-85977-08-27 01:11 J	-29681437.58	-29681437.45	-29681437.31	0.2584	0.0885		

Mercury -85967-02-21 10:03 J -29677972.19 -29677972.08 -29677971.97 0.2755 0.0501

Mercury -85957-08-22 03:06 J -29674137.42 -29674137.37 -29674137.31 0.2582 0.2380

Mercury -85954-02-24 05:44 J -29673221.36 -29673221.26 -29673221.15 0.2754 0.0928

Mercury -85944-08-25 05:15 J -29669386.42 -29669386.28 -29669386.13 0.2583 0.0540

Mercury -85941-02-27 01:39 J -29668470.48 -29668470.43 -29668470.37 0.2752 0.2376

Mercury -85934-02-19 19:25 J -29665920.78 -29665920.69 -29665920.59 0.2756 0.1615

Mercury -85931-08-28 07:11 J -29664635.32 -29664635.20 -29664635.07 0.2584 0.1259

Mercury -85921-02-22 15:06 J -29661169.98 -29661169.87 -29661169.75 0.2754 0.0215

Mercury -85911-08-23 09:06 J -29657335.21 -29657335.12 -29657335.02 0.2582 0.1993

Mercury -85908-02-24 11:01 J -29656419.15 -29656419.04 -29656418.94 0.2753 0.1222

Mercury -85901-02-18 05:01 J -29653869.31 -29653869.29 -29653869.27 0.2756 0.2703

Mercury -85898-08-26 11:15 J -29652584.17 -29652584.03 -29652583.88 0.2583 0.0163

Mercury -85895-02-27 06:56 J -29651668.24 -29651668.21 -29651668.19 0.2752 0.2672

Mercury -85888-02-20 00:27 J -29649118.58 -29649118.48 -29649118.38 0.2755 0.1330

Mercury -85885-08-28 13:11 J -29647833.06 -29647832.95 -29647832.84 0.2584 0.1625

Mercury -85875-02-22 20:08 J -29644367.77 -29644367.66 -29644367.54 0.2754 0.0103

Venus -85866-08-18 11:44 J -29640904.17 -29640904.01 -29640903.85 0.2580 0.0498

Mercury -85865-08-23 15:06 J -29640532.98 -29640532.87 -29640532.75 0.2582 0.1609

Mercury -85862-02-25 16:04 J -29639616.93 -29639616.83 -29639616.74 0.2753 0.1511

Mercury -85855-02-18 10:04 J -29637067.13 -29637067.08 -29637067.03 0.2756 0.2423

Mercury -85852-08-26 17:16 J -29635781.92 -29635781.78 -29635781.63 0.2583 0.0220

Mercury -85842-02-21 05:30 J -29632316.37 -29632316.27 -29632316.16 0.2755 0.1045

Mercury -85839-08-29 18:56 J -29631030.80 -29631030.71 -29631030.61 0.2584 0.1993

Mercury -85829-02-24 01:11 J -29627565.56 -29627565.45 -29627565.33 0.2754 0.0376

Mercury -85819-08-24 21:20 J -29623730.74 -29623730.61 -29623730.48 0.2582 0.1218

Mercury -85816-02-25 21:06 J -29622814.71 -29622814.62 -29622814.53 0.2753 0.1807

Mercury -85809-02-19 15:06 J -29620264.94 -29620264.87 -29620264.80 0.2756 0.2140

Mercury -85806-08-27 23:16 J -29618979.67 -29618979.53 -29618979.39 0.2583 0.0597

Mercury -85796-02-21 10:32 J -29615514.17 -29615514.06 -29615513.95 0.2755 0.0759

Mercury -85793-08-30 00:56 J -29614228.52 -29614228.46 -29614228.40 0.2585 0.2357

Mercury -85783-02-24 06:13 J -29610763.35 -29610763.24 -29610763.12 0.2754 0.0670

Mercury -85773-08-25 03:20 J -29606928.50 -29606928.36 -29606928.22 0.2583 0.0835

Mercury -85770-02-27 02:08 J -29606012.48 -29606012.41 -29606012.33 0.2752 0.2106

Mercury -85763-02-19 20:08 J -29603462.74 -29603462.66 -29603462.58 0.2756 0.1853

Mercury -85760-08-28 05:16 J -29602177.41 -29602177.28 -29602177.14 0.2584 0.0978

Venus -85752-02-15 12:28 J -29599449.13 -29599448.98 -29599448.84 0.2757 0.0769

Mercury -85750-02-22 15:35 J -29598711.96 -29598711.85 -29598711.73 0.2755 0.0478

Mercury -85740-08-23 06:56 J -29594877.27 -29594877.21 -29594877.15 0.2582 0.2305

Mercury -85737-02-25 11:30 J -29593961.13 -29593961.02 -29593960.92 0.2753 0.0960

Mercury -85727-08-26 09:20 J -29590126.26 -29590126.11 -29590125.97 0.2583 0.0457

Mercury -85724-02-27 07:25 J -29589210.25 -29589210.19 -29589210.14 0.2752 0.2404

Mercury -85717-02-21 01:11 J -29586660.54 -29586660.45 -29586660.36 0.2756 0.1570

Mercury -85714-08-29 11:16 J -29585375.16 -29585375.03 -29585374.91 0.2584 0.1347

Mercury -85704-02-22 20:52 J -29581909.75 -29581909.63 -29581909.52 0.2755 0.0183

Mercury -85694-08-24 12:56 J -29578075.06 -29578074.96 -29578074.86 0.2582 0.1923

Mercury -85691-02-25 16:32 J -29577158.91 -29577158.81 -29577158.71 0.2753 0.1250

Mercury -85684-02-18 10:47 J -29574609.08 -29574609.05 -29574609.02 0.2756 0.2658

Mercury -85681-08-26 15:20 J -29573324.01 -29573323.86 -29573323.72 0.2583 0.0110

Mercury -85678-02-28 12:28 J -29572408.00 -29572407.98 -29572407.96 0.2752 0.2701

Mercury -85671-02-21 06:13 J -29569858.34 -29569858.24 -29569858.14 0.2755 0.1284

Mercury -85668-08-29 17:16 J -29568572.89 -29568572.78 -29568572.68 0.2584 0.1719

Mercury -85658-02-24 01:54 J -29565107.54 -29565107.42 -29565107.31 0.2754 0.0136

Mercury -85648-08-24 18:56 J -29561272.82 -29561272.71 -29561272.59 0.2582 0.1530

Mercury -85645-02-26 21:35 J -29560356.69 -29560356.60 -29560356.50 0.2753 0.1548

Mercury -85638-02-19 15:49 J -29557806.90 -29557806.84 -29557806.79 0.2756 0.2378

Mercury -85635-08-27 21:06 J -29556521.76 -29556521.62 -29556521.47 0.2583 0.0309

Mercury -85625-02-22 11:16 J -29553056.14 -29553056.03 -29553055.92 0.2755 0.0999

Venus -85623-08-18 13:54 J -29552148.07 -29552147.92 -29552147.76 0.2580 0.0680

Mercury -85622-08-30 23:01 J -29551770.62 -29551770.54 -29551770.46 0.2584 0.2084

Mercury -85612-02-24 06:56 J -29548305.33 -29548305.21 -29548305.10 0.2754 0.0410

Mercury -85602-08-26 00:56 J -29544470.59 -29544470.46 -29544470.33 0.2582 0.1150

Mercury -85599-02-27 02:37 J -29543554.47 -29543554.39 -29543554.30 0.2753 0.1843

Mercury -85592-02-19 20:52 J -29541004.70 -29541004.63 -29541004.56 0.2756 0.2094

Mercury -85589-08-28 03:06 J -29539719.51 -29539719.37 -29539719.22 0.2583 0.0686

Mercury -85579-02-22 16:18 J -29536253.93 -29536253.82 -29536253.71 0.2755 0.0714

Mercury -85576-08-31 05:01 J -29534968.33 -29534968.29 -29534968.25 0.2584 0.2455

Mercury -85566-02-25 11:59 J -29531503.11 -29531503.00 -29531502.89 0.2754 0.0700

Mercury -85556-08-26 06:56 J -29527668.35 -29527668.21 -29527668.06 0.2582 0.0765

Mercury -85553-02-28 07:40 J -29526752.25 -29526752.18 -29526752.10 0.2752 0.2142

Mercury -85546-02-21 01:54 J -29524202.51 -29524202.42 -29524202.34 0.2756 0.1815

Mercury -85543-08-29 09:06 J -29522917.25 -29522917.12 -29522916.99 0.2583 0.1054

Mercury -85533-02-23 21:20 J -29519451.72 -29519451.61 -29519451.50 0.2755 0.0424

Mercury -85523-08-24 10:47 J -29515617.13 -29515617.05 -29515616.98 0.2582 0.2242

Mercury -85520-02-25 17:01 J -29514700.90 -29514700.79 -29514700.68 0.2754 0.0993

Mercury -85510-08-27 13:11 J -29510866.10 -29510865.95 -29510865.81 0.2583 0.0385

Venus -85509-02-16 12:13 J -29510693.14 -29510692.99 -29510692.84 0.2757 0.0350

Mercury -85507-02-28 12:56 J -29509950.02 -29509949.96 -29509949.91 0.2752 0.2435

Mercury -85500-02-21 06:56 J -29507400.31 -29507400.21 -29507400.12 0.2755 0.1532

Mercury -85497-08-29 15:06 J -29506114.99 -29506114.87 -29506114.75 0.2584 0.1436

Mercury -85487-02-24 02:23 J -29502649.51 -29502649.40 -29502649.28 0.2754 0.0138

Mercury -85477-08-24 16:47 J -29498814.90 -29498814.80 -29498814.70 0.2582 0.1843

Mercury -85474-02-26 22:04 J -29497898.68 -29497898.58 -29497898.48 0.2753 0.1287

Mercury -85467-02-19 16:32 J -29495348.84 -29495348.81 -29495348.78 0.2756 0.2611

Mercury -85464-08-27 19:11 J -29494063.85 -29494063.70 -29494063.56 0.2583 0.0049

Mercury -85461-02-29 17:59 J -29493147.76 -29493147.75 -29493147.74 0.2752 0.2733

Mercury -85454-02-22 11:59 J -29490598.10 -29490598.00 -29490597.90 0.2755 0.1244

Mercury -85451-08-30 21:06 J -29489312.72 -29489312.62 -29489312.52 0.2584 0.1807

Mercury -85441-02-25 07:25 J -29485847.30 -29485847.19 -29485847.07 0.2754 0.0160

Mercury -85431-08-25 22:47 J -29482012.67 -29482012.55 -29482012.43 0.2582 0.1462

Mercury -85428-02-27 03:06 J -29481096.46 -29481096.37 -29481096.27 0.2753 0.1578

Mercury -85421-02-20 21:35 J -29478546.66 -29478546.60 -29478546.54 0.2756 0.2330

Mercury -85418-08-29 01:11 J -29477261.60 -29477261.45 -29477261.31 0.2583 0.0393

Mercury -85408-02-22 17:01 J -29473795.90 -29473795.79 -29473795.69 0.2755 0.0957

Mercury -85405-08-31 03:06 J -29472510.45 -29472510.37 -29472510.29 0.2584 0.2183

Mercury -85395-02-25 12:28 J -29469045.09 -29469044.98 -29469044.86 0.2754 0.0452

Mercury -85385-08-26 04:47 J -29465210.43 -29465210.30 -29465210.16 0.2582 0.1071

Mercury -85382-02-28 08:08 J -29464294.24 -29464294.16 -29464294.07 0.2753 0.1875

Venus -85380-08-18 16:04 J -29463391.98 -29463391.83 -29463391.68 0.2580 0.0843

Mercury -85375-02-21 02:37 J -29461744.47 -29461744.39 -29461744.32 0.2756 0.2053

Mercury -85372-08-29 06:56 J -29460459.35 -29460459.21 -29460459.07 0.2583 0.0768

Mercury -85362-02-23 22:04 J -29456993.69 -29456993.58 -29456993.47 0.2755 0.0672

Mercury -85359-09-01 08:52 J -29455708.14 -29455708.13 -29455708.11 0.2584 0.2552

Mercury -85352-08-24 08:08 J -29453159.16 -29453159.16 -29453159.15 0.2582 0.2573

Mercury -85349-02-26 17:30 J -29452242.88 -29452242.77 -29452242.66 0.2754 0.0746

Mercury -85339-08-27 10:47 J -29448408.19 -29448408.05 -29448407.91 0.2582 0.0692

Mercury -85336-02-28 13:25 J -29447492.01 -29447491.94 -29447491.87 0.2753 0.2171

Mercury -85329-02-22 07:40 J -294444942.27 -294444942.18 -294444942.10 0.2755 0.1774

Mercury -85326-08-30 12:56 J -29443657.09 -29443656.96 -29443656.82 0.2583 0.1148

Mercury -85316-02-24 03:06 J -29440191.49 -29440191.37 -29440191.26 0.2755 0.0389

Mercury -85306-08-25 14:23 J -29436356.98 -29436356.90 -29436356.82 0.2582 0.2175

Mercury -85303-02-26 22:32 J -29435440.66 -29435440.56 -29435440.45 0.2754 0.1031

Mercury -85293-08-27 16:47 J -29431605.94 -29431605.80 -29431605.65 0.2583 0.0304

Mercury -85290-03-01 18:28 J -29430689.78 -29430689.73 -29430689.68 0.2752 0.2470

Mercury -85283-02-22 12:42 J -29428140.07 -29428139.97 -29428139.88 0.2755 0.1486

Mercury -85280-08-30 18:56 J -29426854.83 -29426854.71 -29426854.59 0.2584 0.1517

Mercury -85270-02-25 08:08 J -29423389.28 -29423389.16 -29423389.05 0.2754 0.0109

Venus -85266-02-16 11:59 J -29421937.15 -29421937.00 -29421936.84 0.2757 0.0082

Mercury -85260-08-25 20:23 J -29419554.76 -29419554.65 -29419554.54 0.2582 0.1783

Mercury -85257-02-28 03:49 J -29418638.45 -29418638.34 -29418638.24 0.2753 0.1324

Mercury -85250-02-20 22:18 J -29416088.61 -29416088.57 -29416088.53 0.2756 0.2569

Mercury -85247-08-28 22:47 J -29414803.69 -29414803.55 -29414803.40 0.2583 0.0113
 Mercury -85237-02-23 17:44 J -29411337.87 -29411337.76 -29411337.66 0.2755 0.1204
 Mercury -85234-09-01 00:56 J -29410052.55 -29410052.46 -29410052.36 0.2584 0.1901
 Mercury -85224-02-25 13:11 J -29406587.07 -29406586.95 -29406586.84 0.2754 0.0200
 Mercury -85214-08-27 02:37 J -29402752.52 -29402752.39 -29402752.27 0.2582 0.1388
 Mercury -85211-02-28 08:52 J -29401836.23 -29401836.13 -29401836.04 0.2753 0.1615
 Mercury -85204-02-21 03:20 J -29399286.42 -29399286.36 -29399286.30 0.2756 0.2292
 Mercury -85201-08-29 04:47 J -29398001.44 -29398001.30 -29398001.15 0.2583 0.0476
 Mercury -85191-02-23 22:32 J -29394535.66 -29394535.56 -29394535.45 0.2755 0.0926
 Mercury -85188-09-01 06:56 J -29393250.28 -29393250.21 -29393250.14 0.2584 0.2270
 Mercury -85178-02-26 18:13 J -29389784.85 -29389784.74 -29389784.63 0.2754 0.0484
 Mercury -85168-08-27 08:37 J -29385950.28 -29385950.14 -29385950.01 0.2582 0.1005
 Mercury -85165-02-29 13:54 J -29385034.00 -29385033.92 -29385033.84 0.2753 0.1909
 Mercury -85158-02-22 08:23 J -29382484.23 -29382484.15 -29382484.08 0.2756 0.2011
 Mercury -85155-08-30 11:01 J -29381199.18 -29381199.04 -29381198.91 0.2583 0.0854
 Mercury -85145-02-25 03:35 J -29377733.46 -29377733.35 -29377733.24 0.2755 0.0641
 Venus -85137-08-18 17:59 J -29374635.90 -29374635.75 -29374635.60 0.2581 0.0988
 Mercury -85135-08-25 11:59 J -29373899.04 -29373899.00 -29373898.97 0.2582 0.2505
 Mercury -85132-02-26 23:16 J -29372982.64 -29372982.53 -29372982.42 0.2754 0.0771
 Mercury -85122-08-28 14:37 J -29369148.03 -29369147.89 -29369147.75 0.2582 0.0608
 Mercury -85119-03-01 18:56 J -29368231.78 -29368231.71 -29368231.64 0.2753 0.2201
 Mercury -85112-02-22 13:25 J -29365682.03 -29365681.94 -29365681.86 0.2755 0.1726
 Mercury -85109-08-30 17:01 J -29364396.92 -29364396.79 -29364396.67 0.2583 0.1231
 Mercury -85099-02-25 08:37 J -29360931.25 -29360931.14 -29360931.02 0.2755 0.0362
 Mercury -85089-08-25 17:59 J -29357096.84 -29357096.75 -29357096.67 0.2582 0.2111
 Mercury -85086-02-28 04:18 J -29356180.43 -29356180.32 -29356180.22 0.2754 0.1061
 Mercury -85076-08-28 20:37 J -29352345.79 -29352345.64 -29352345.49 0.2583 0.0224
 Mercury -85073-03-01 23:59 J -29351429.55 -29351429.50 -29351429.45 0.2752 0.2494
 Mercury -85066-02-23 18:13 J -29348879.83 -29348879.74 -29348879.64 0.2755 0.1449
 Mercury -85063-08-31 23:01 J -29347594.66 -29347594.54 -29347594.43 0.2584 0.1614

Mercury	-85053-02-26 13:40 J	-29344129.04	-29344128.93	-29344128.81	0.2754	0.0108
Mercury	-85043-08-26 23:59 J	-29340294.61	-29340294.50	-29340294.39	0.2582	0.1719
Mercury	-85040-02-28 09:20 J	-29339378.21	-29339378.11	-29339378.01	0.2753	0.1358
Mercury	-85033-02-22 04:04 J	-29336828.37	-29336828.33	-29336828.29	0.2756	0.2526
Mercury	-85030-08-30 02:37 J	-29335543.54	-29335543.39	-29335543.24	0.2583	0.0166
Venus	-85023-02-16 11:59 J	-29333181.15	-29333181.00	-29333180.84	0.2756	0.0482
Mercury	-85020-02-23 23:16 J	-29332077.63	-29332077.53	-29332077.42	0.2755	0.1165
Mercury	-85017-09-01 04:47 J	-29330792.39	-29330792.30	-29330792.20	0.2584	0.1987
Mercury	-85007-02-26 18:42 J	-29327326.83	-29327326.72	-29327326.60	0.2754	0.0255

85TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 85th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-84997-08-27 05:59 J	-29323492.37	-29323492.25	-29323492.12	0.2582	0.1329		
Mercury	-84994-03-01 14:23 J	-29322575.99	-29322575.90	-29322575.81	0.2753	0.1651		
Mercury	-84987-02-22 09:06 J	-29320026.19	-29320026.12	-29320026.06	0.2755	0.2246		
Mercury	-84984-08-30 08:37 J	-29318741.28	-29318741.14	-29318740.99	0.2583	0.0545		
Mercury	-84974-02-25 04:18 J	-29315275.43	-29315275.32	-29315275.21	0.2755	0.0882		
Mercury	-84971-09-02 11:01 J	-29313990.10	-29313990.04	-29313989.99	0.2584	0.2365		
Mercury	-84961-02-27 23:44 J	-29310524.62	-29310524.51	-29310524.39	0.2754	0.0524		
Mercury	-84951-08-28 12:13 J	-29306690.13	-29306689.99	-29306689.85	0.2582	0.0928		
Mercury	-84948-03-01 19:25 J	-29305773.77	-29305773.69	-29305773.61	0.2753	0.1940		
Mercury	-84941-02-23 14:08 J	-29303223.99	-29303223.91	-29303223.84	0.2755	0.1968		

Mercury -84938-08-31 14:37 J -29301939.02 -29301938.89 -29301938.75 0.2583 0.0932

Mercury -84928-02-25 09:20 J -29298473.22 -29298473.11 -29298473.00 0.2755 0.0594

Mercury -84918-08-26 15:35 J -29294638.90 -29294638.85 -29294638.81 0.2582 0.2444

Mercury -84915-02-28 04:47 J -29293722.41 -29293722.30 -29293722.19 0.2754 0.0810

Mercury -84905-08-28 18:13 J -29289887.88 -29289887.74 -29289887.59 0.2583 0.0538

Mercury -84902-03-03 00:28 J -29288971.54 -29288971.48 -29288971.41 0.2753 0.2232

Mercury -84895-02-23 18:56 J -29286421.79 -29286421.71 -29286421.62 0.2755 0.1691

Venus -84894-08-19 19:54 J -29285879.82 -29285879.67 -29285879.52 0.2581 0.1141

Mercury -84892-08-31 20:52 J -29285136.76 -29285136.63 -29285136.51 0.2583 0.1317

Mercury -84882-02-26 14:23 J -29281671.01 -29281670.90 -29281670.79 0.2755 0.0309

Mercury -84872-08-26 21:35 J -29277836.69 -29277836.60 -29277836.51 0.2582 0.2047

Mercury -84869-02-29 09:49 J -29276920.19 -29276920.09 -29276919.98 0.2754 0.1104

Mercury -84859-08-30 00:28 J -29273085.63 -29273085.48 -29273085.34 0.2583 0.0158

Mercury -84856-03-03 05:30 J -29272169.31 -29272169.27 -29272169.22 0.2752 0.2528

Mercury -84849-02-24 23:59 J -29269619.59 -29269619.50 -29269619.40 0.2755 0.1408

Mercury -84846-09-02 02:37 J -29268334.50 -29268334.39 -29268334.28 0.2584 0.1696

Mercury -84836-02-26 19:25 J -29264868.80 -29264868.69 -29264868.58 0.2754 0.0033

Mercury -84826-08-28 03:35 J -29261034.46 -29261034.35 -29261034.23 0.2582 0.1651

Mercury -84823-03-01 14:52 J -29260117.97 -29260117.88 -29260117.78 0.2753 0.1391

Mercury -84816-02-22 09:49 J -29257568.14 -29257568.09 -29257568.04 0.2755 0.2479

Mercury -84813-08-30 06:28 J -29256283.38 -29256283.23 -29256283.09 0.2583 0.0244

Mercury -84803-02-25 05:01 J -29252817.39 -29252817.29 -29252817.18 0.2755 0.1124

Mercury -84800-09-02 08:52 J -29251532.22 -29251532.13 -29251532.05 0.2584 0.2075

Mercury -84790-02-28 00:28 J -29248066.59 -29248066.48 -29248066.37 0.2754 0.0266

Venus -84780-02-16 11:59 J -29244425.15 -29244425.00 -29244424.86 0.2756 0.0889

Mercury -84780-08-28 09:49 J -29244232.22 -29244232.09 -29244231.96 0.2582 0.1252

Mercury -84777-03-01 19:54 J -29243315.76 -29243315.67 -29243315.58 0.2753 0.1681

Mercury -84770-02-23 14:52 J -29240765.95 -29240765.88 -29240765.82 0.2755 0.2204

Mercury -84767-08-31 12:28 J -29239481.12 -29239480.98 -29239480.84 0.2583 0.0629

Mercury -84757-02-26 10:04 J -29236015.19 -29236015.08 -29236014.97 0.2755 0.0835

Mercury -84754-09-03 14:37 J -29234729.93 -29234729.89 -29234729.84 0.2584 0.2447

Mercury -84744-02-28 05:30 J -29231264.38 -29231264.27 -29231264.16 0.2754 0.0556

Mercury -84734-08-29 15:49 J -29227429.98 -29227429.84 -29227429.70 0.2582 0.0861

Mercury -84731-03-03 01:11 J -29226513.53 -29226513.45 -29226513.38 0.2753 0.1974

Mercury -84724-02-23 19:54 J -29223963.75 -29223963.67 -29223963.59 0.2755 0.1925

Mercury -84721-08-31 18:28 J -29222678.87 -29222678.73 -29222678.59 0.2583 0.1011

Mercury -84711-02-26 15:06 J -29219212.98 -29219212.87 -29219212.76 0.2755 0.0555

Mercury -84701-08-26 18:56 J -29215378.76 -29215378.71 -29215378.65 0.2582 0.2388

Mercury -84698-03-01 10:32 J -29214462.17 -29214462.06 -29214461.95 0.2754 0.0846

Mercury -84688-08-29 21:49 J -29210627.73 -29210627.59 -29210627.44 0.2583 0.0477

Mercury -84685-03-03 06:13 J -29209711.31 -29209711.24 -29209711.18 0.2753 0.2268

Mercury -84678-02-25 00:42 J -29207161.56 -29207161.47 -29207161.38 0.2755 0.1649

Mercury -84675-09-02 00:28 J -29205876.60 -29205876.48 -29205876.36 0.2583 0.1391

Mercury -84665-02-27 20:08 J -29202410.77 -29202410.66 -29202410.55 0.2754 0.0270

Mercury -84655-08-28 01:11 J -29198576.55 -29198576.45 -29198576.36 0.2582 0.1987

Mercury -84652-03-01 15:35 J -29197659.95 -29197659.85 -29197659.75 0.2753 0.1131

Venus -84651-08-19 21:35 J -29197123.74 -29197123.60 -29197123.46 0.2581 0.1259

Mercury -84645-02-23 10:32 J -29195110.07 -29195110.06 -29195110.04 0.2755 0.2716

Mercury -84642-08-31 03:49 J -29193825.48 -29193825.34 -29193825.19 0.2583 0.0114

Mercury -84639-03-04 11:16 J -29192909.07 -29192909.03 -29192908.99 0.2752 0.2559

Mercury -84632-02-25 05:44 J -29190359.35 -29190359.26 -29190359.16 0.2755 0.1366

Mercury -84629-09-02 06:28 J -29189074.34 -29189074.23 -29189074.12 0.2584 0.1771

Mercury -84619-02-28 01:11 J -29185608.57 -29185608.45 -29185608.34 0.2754 0.0038

Mercury -84609-08-28 07:11 J -29181774.31 -29181774.20 -29181774.08 0.2582 0.1584

Mercury -84606-03-02 20:37 J -29180857.74 -29180857.64 -29180857.54 0.2753 0.1420

Mercury -84599-02-23 15:35 J -29178307.90 -29178307.85 -29178307.80 0.2755 0.2442

Mercury -84596-08-31 10:04 J -29177023.23 -29177023.08 -29177022.93 0.2583 0.0314

Mercury -84586-02-26 10:47 J -29173557.15 -29173557.05 -29173556.94 0.2755 0.1082

Mercury -84583-09-03 12:28 J -29172272.06 -29172271.98 -29172271.90 0.2584 0.2153

Mercury -84573-02-29 06:13 J -29168806.36 -29168806.24 -29168806.13 0.2754 0.0306

Mercury -84563-08-29 13:25 J -29164972.08 -29164971.94 -29164971.81 0.2582 0.1190

Mercury -84560-03-03 01:40 J -29164055.52 -29164055.43 -29164055.34 0.2753 0.1709

Mercury -84553-02-24 20:37 J -29161505.71 -29161505.64 -29161505.57 0.2755 0.2160

Mercury -84550-09-01 16:04 J -29160220.97 -29160220.83 -29160220.68 0.2583 0.0706

Mercury -84540-02-26 15:49 J -29156754.95 -29156754.84 -29156754.73 0.2755 0.0800

Venus -84537-02-17 11:59 J -29155669.13 -29155669.00 -29155668.86 0.2756 0.1290

Mercury -84537-09-03 18:28 J -29155469.75 -29155469.73 -29155469.70 0.2584 0.2540

Mercury -84527-03-01 11:16 J -29152004.14 -29152004.03 -29152003.92 0.2754 0.0593

Mercury -84517-08-29 19:25 J -29148169.83 -29148169.69 -29148169.55 0.2583 0.0794

Mercury -84514-03-04 06:42 J -29147253.30 -29147253.22 -29147253.14 0.2753 0.2005

Mercury -84507-02-25 01:40 J -29144703.51 -29144703.43 -29144703.35 0.2755 0.1882

Mercury -84504-09-01 22:04 J -29143418.71 -29143418.58 -29143418.44 0.2583 0.1091

Mercury -84494-02-27 20:52 J -29139952.74 -29139952.63 -29139952.52 0.2755 0.0515

Mercury -84484-08-27 22:32 J -29136118.62 -29136118.56 -29136118.50 0.2582 0.2328

Mercury -84481-03-01 16:18 J -29135201.93 -29135201.82 -29135201.71 0.2754 0.0879

Mercury -84471-08-31 01:25 J -29131367.58 -29131367.44 -29131367.29 0.2583 0.0406

Mercury -84468-03-04 11:44 J -29130451.07 -29130451.01 -29130450.95 0.2753 0.2292

Mercury -84461-02-26 06:42 J -29127901.31 -29127901.22 -29127901.13 0.2755 0.1603

Mercury -84458-09-03 04:18 J -29126616.45 -29126616.32 -29126616.20 0.2583 0.1475

Mercury -84448-02-28 01:54 J -29123150.54 -29123150.42 -29123150.31 0.2754 0.0235

Mercury -84438-08-29 04:32 J -29119316.40 -29119316.31 -29119316.21 0.2582 0.1927

Mercury -84435-03-02 21:20 J -29118399.72 -29118399.61 -29118399.51 0.2754 0.1169

Mercury -84428-02-23 16:32 J -29115849.84 -29115849.81 -29115849.79 0.2755 0.2674

Mercury -84425-08-31 07:40 J -29114565.33 -29114565.18 -29114565.03 0.2583 0.0031

Mercury -84422-03-05 16:47 J -29113648.83 -29113648.80 -29113648.76 0.2753 0.2587

Mercury -84415-02-26 11:30 J -29111099.11 -29111099.02 -29111098.92 0.2755 0.1326

Mercury -84412-09-03 10:18 J -29109814.17 -29109814.07 -29109813.97 0.2584 0.1857

Venus -84408-08-19 23:16 J -29108367.67 -29108367.53 -29108367.39 0.2581 0.1392

Mercury -84402-03-01 06:56 J -29106348.33 -29106348.21 -29106348.10 0.2754 0.0087

Venus -84400-08-17 15:06 J -29105447.91 -29105447.87 -29105447.83 0.2581 0.2483

Mercury -84392-08-29 10:47 J -29102514.17 -29102514.05 -29102513.93 0.2582 0.1533

Mercury -84389-03-03 02:23 J -29101597.50 -29101597.40 -29101597.31 0.2753 0.1456

Mercury -84382-02-24 21:20 J -29099047.66 -29099047.61 -29099047.55 0.2755 0.2397

Mercury -84379-09-01 13:40 J -29097763.08 -29097762.93 -29097762.78 0.2583 0.0383

Mercury -84369-02-27 16:32 J -29094296.91 -29094296.81 -29094296.70 0.2755 0.1042

Mercury -84366-09-04 16:18 J -29093011.89 -29093011.82 -29093011.75 0.2584 0.2241

Mercury -84356-03-01 11:59 J -29089546.12 -29089546.00 -29089545.89 0.2754 0.0353

Mercury -84346-08-30 16:47 J -29085711.93 -29085711.80 -29085711.66 0.2583 0.1129

Mercury -84343-03-04 07:25 J -29084795.28 -29084795.19 -29084795.11 0.2753 0.1749

Mercury -84336-02-25 02:23 J -29082245.47 -29082245.40 -29082245.33 0.2755 0.2118

Mercury -84333-09-01 19:40 J -29080960.82 -29080960.68 -29080960.53 0.2583 0.0775

Mercury -84323-02-27 21:35 J -29077494.71 -29077494.60 -29077494.49 0.2754 0.0761

Mercury -84310-03-02 17:01 J -29072743.91 -29072743.79 -29072743.68 0.2754 0.0634

Mercury -84300-08-30 23:01 J -29068909.69 -29068909.54 -29068909.40 0.2583 0.0730

Mercury -84297-03-04 12:28 J -29067993.06 -29067992.98 -29067992.91 0.2753 0.2036

Venus -84294-02-17 12:13 J -29066913.11 -29066912.99 -29066912.87 0.2755 0.1679

Mercury -84290-02-26 07:25 J -29065443.27 -29065443.19 -29065443.11 0.2755 0.1841

Mercury -84287-09-03 01:54 J -29064158.56 -29064158.42 -29064158.29 0.2583 0.1167

Mercury -84277-02-29 02:37 J -29060692.50 -29060692.39 -29060692.28 0.2754 0.0480

Mercury -84267-08-29 01:54 J -29056858.49 -29056858.42 -29056858.35 0.2582 0.2269

Mercury -84264-03-02 21:49 J -29055941.69 -29055941.59 -29055941.48 0.2754 0.0917

Mercury -84254-09-01 05:16 J -29052107.43 -29052107.28 -29052107.14 0.2583 0.0332

Mercury -84251-03-05 17:30 J -29051190.83 -29051190.77 -29051190.71 0.2753 0.2328

Mercury -84244-02-26 12:28 J -29048641.08 -29048640.98 -29048640.89 0.2755 0.1564

Mercury -84241-09-03 07:54 J -29047356.29 -29047356.17 -29047356.05 0.2583 0.1556

Mercury -84231-03-01 07:40 J -29043890.30 -29043890.18 -29043890.07 0.2754 0.0205

Mercury -84221-08-29 08:08 J -29040056.26 -29040056.16 -29040056.06 0.2582 0.1868

Mercury -84218-03-04 02:52 J -29039139.48 -29039139.38 -29039139.27 0.2753 0.1202

Mercury -84211-02-24 22:18 J -29036589.60 -29036589.57 -29036589.54 0.2755 0.2626

Mercury -84208-09-01 11:16 J -29035305.18 -29035305.03 -29035304.88 0.2583 0.0072

Mercury -84205-03-05 22:32 J -29034388.60 -29034388.56 -29034388.53 0.2752 0.2618

Mercury -84198-02-27 17:30 J -29031838.87 -29031838.77 -29031838.68 0.2755 0.1283

Mercury -84195-09-04 13:54 J -29030554.01 -29030553.92 -29030553.82 0.2584 0.1947

Mercury -84185-03-01 12:42 J -29027088.09 -29027087.97 -29027087.86 0.2754 0.0129

Mercury -84175-08-30 14:08 J -29023254.03 -29023253.91 -29023253.78 0.2583 0.1466

Mercury -84172-03-04 07:54 J -29022337.26 -29022337.17 -29022337.07 0.2753 0.1490

Mercury -84165-02-26 03:20 J -29019787.42 -29019787.36 -29019787.31 0.2755 0.2352

Venus -84165-08-20 00:42 J -29019611.60 -29019611.47 -29019611.33 0.2582 0.1509

Mercury -84162-09-02 17:16 J -29018502.92 -29018502.78 -29018502.63 0.2583 0.0463

Venus -84157-08-17 16:32 J -29016691.87 -29016691.81 -29016691.75 0.2582 0.2379

Mercury -84152-02-27 22:18 J -29015036.67 -29015036.57 -29015036.46 0.2754 0.1003

Mercury -84149-09-04 19:54 J -29013751.73 -29013751.67 -29013751.60 0.2584 0.2326

Mercury -84139-03-02 17:44 J -29010285.88 -29010285.76 -29010285.65 0.2754 0.0389

Mercury -84129-08-30 20:23 J -29006451.79 -29006451.65 -29006451.51 0.2583 0.1067

Mercury -84126-03-05 12:56 J -29005535.04 -29005534.96 -29005534.87 0.2753 0.1782

Mercury -84119-02-26 08:08 J -29002985.23 -29002985.16 -29002985.08 0.2755 0.2078

Mercury -84116-09-02 23:16 J -29001700.67 -29001700.53 -29001700.38 0.2583 0.0854

Mercury -84106-03-01 03:20 J -28998234.47 -28998234.36 -28998234.25 0.2754 0.0720

Mercury -84093-03-02 22:32 J -28993483.67 -28993483.56 -28993483.45 0.2754 0.0671

Mercury -84083-09-01 02:37 J -28989649.54 -28989649.39 -28989649.25 0.2583 0.0661

Mercury -84080-03-05 17:59 J -28988732.82 -28988732.75 -28988732.67 0.2753 0.2071

Mercury -84073-02-27 13:11 J -28986183.03 -28986182.95 -28986182.86 0.2755 0.1797

Mercury -84070-09-04 05:30 J -28984898.40 -28984898.27 -28984898.14 0.2583 0.1244

Mercury -84060-03-01 08:23 J -28981432.26 -28981432.15 -28981432.04 0.2754 0.0437

Venus -84059-02-19 21:20 J -28981076.67 -28981076.61 -28981076.55 0.2755 0.2501

Venus -84051-02-17 12:28 J -28978157.08 -28978156.98 -28978156.87 0.2755 0.2044

Mercury -84050-08-30 05:30 J -28977598.35 -28977598.27 -28977598.20 0.2583 0.2214

Mercury -84047-03-04 03:35 J -28976681.45 -28976681.35 -28976681.24 0.2753 0.0955

Mercury -84037-09-01 08:37 J -28972847.29 -28972847.14 -28972846.99 0.2583 0.0266

Mercury -84034-03-06 23:01 J -28971930.59 -28971930.54 -28971930.48 0.2753 0.2360

Mercury -84027-02-27 18:13 J -28969380.83 -28969380.74 -28969380.65 0.2754 0.1517

Mercury -84024-09-04 11:30 J -28968096.13 -28968096.02 -28968095.90 0.2584 0.1636

Mercury -84014-03-02 13:25 J -28964630.05 -28964629.94 -28964629.83 0.2754 0.0156

Mercury -84004-08-30 11:30 J -28960796.12 -28960796.02 -28960795.91 0.2583 0.1808

Mercury -84001-03-04 08:37 J -28959879.24 -28959879.14 -28959879.04 0.2753 0.1237

84TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 84th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-83994-02-26 04:04 J	-28957329.36	-28957329.33	-28957329.29	0.2755	0.2586		
Mercury	-83991-09-02 14:52 J	-28956045.03	-28956044.88	-28956044.73	0.2583	0.0141		
Mercury	-83988-03-07 04:04 J	-28955128.35	-28955128.33	-28955128.30	0.2752	0.2652		
Mercury	-83981-02-28 23:16 J	-28952578.63	-28952578.53	-28952578.43	0.2754	0.1244		
Mercury	-83978-09-05 17:30 J	-28951293.86	-28951293.77	-28951293.67	0.2584	0.2020		
Mercury	-83968-03-02 18:28 J	-28947827.85	-28947827.73	-28947827.62	0.2754	0.0150		
Mercury	-83958-08-31 17:44 J	-28943993.88	-28943993.76	-28943993.63	0.2583	0.1400		
Mercury	-83955-03-05 13:40 J	-28943077.02	-28943076.93	-28943076.83	0.2753	0.1527		
Mercury	-83948-02-26 09:06 J	-28940527.18	-28940527.12	-28940527.06	0.2755	0.2306		
Mercury	-83945-09-02 20:52 J	-28939242.77	-28939242.63	-28939242.48	0.2583	0.0531		
Mercury	-83935-03-01 04:04 J	-28935776.43	-28935776.33	-28935776.22	0.2754	0.0968		
Mercury	-83932-09-05 23:44 J	-28934491.56	-28934491.51	-28934491.46	0.2584	0.2410		
Mercury	-83922-03-03 23:16 J	-28931025.64	-28931025.53	-28931025.41	0.2754	0.0425		
Venus	-83922-08-21 02:23 J	-28930855.52	-28930855.40	-28930855.27	0.2582	0.1637		

Venus -83914-08-18 18:13 J -28927935.82 -28927935.74 -28927935.66 0.2583 0.2258

Mercury -83912-08-31 23:59 J -28927191.64 -28927191.50 -28927191.36 0.2583 0.0994

Mercury -83909-03-05 18:42 J -28926274.80 -28926274.72 -28926274.64 0.2753 0.1810

Mercury -83902-02-27 14:08 J -28923724.99 -28923724.91 -28923724.84 0.2755 0.2029

Mercury -83899-09-04 03:06 J -28922440.51 -28922440.37 -28922440.23 0.2583 0.0932

Mercury -83889-03-01 09:06 J -28918974.23 -28918974.12 -28918974.01 0.2754 0.0682

Mercury -83879-08-30 02:37 J -28915140.40 -28915140.39 -28915140.38 0.2583 0.2565

Mercury -83876-03-04 04:18 J -28914223.43 -28914223.32 -28914223.21 0.2753 0.0705

Mercury -83866-09-02 05:59 J -28910389.39 -28910389.25 -28910389.10 0.2583 0.0597

Mercury -83863-03-06 23:44 J -28909472.58 -28909472.51 -28909472.44 0.2753 0.2099

Mercury -83856-02-27 19:11 J -28906922.79 -28906922.70 -28906922.62 0.2754 0.1754

Mercury -83853-09-04 09:06 J -28905638.25 -28905638.12 -28905637.99 0.2584 0.1321

Mercury -83843-03-02 14:08 J -28902172.02 -28902171.91 -28902171.80 0.2754 0.0395

Mercury -83833-08-30 08:52 J -28898338.21 -28898338.13 -28898338.05 0.2583 0.2161

Mercury -83830-03-05 09:20 J -28897421.21 -28897421.11 -28897421.00 0.2753 0.0990

Mercury -83820-09-02 12:13 J -28893587.14 -28893586.99 -28893586.84 0.2583 0.0193

Mercury -83817-03-07 04:47 J -28892670.35 -28892670.30 -28892670.24 0.2753 0.2392

Venus -83816-02-19 21:49 J -28892320.69 -28892320.59 -28892320.50 0.2754 0.2134

Mercury -83810-02-28 23:59 J -28890120.59 -28890120.50 -28890120.40 0.2754 0.1475

Venus -83808-02-17 13:11 J -28889401.03 -28889400.95 -28889400.88 0.2754 0.2399

Mercury -83807-09-05 15:06 J -28888835.98 -28888835.87 -28888835.76 0.2584 0.1713

Mercury -83797-03-02 19:11 J -28885369.81 -28885369.70 -28885369.59 0.2754 0.0113

Mercury -83787-08-31 15:06 J -28881535.98 -28881535.87 -28881535.76 0.2583 0.1749

Mercury -83784-03-05 14:23 J -28880619.00 -28880618.90 -28880618.80 0.2753 0.1278

Mercury -83777-02-27 10:04 J -28878069.12 -28878069.08 -28878069.04 0.2754 0.2533

Mercury -83774-09-03 18:13 J -28876784.89 -28876784.74 -28876784.59 0.2583 0.0204

Mercury -83771-03-08 09:49 J -28875868.11 -28875868.09 -28875868.07 0.2752 0.2685

Mercury -83764-03-01 05:01 J -28873318.39 -28873318.29 -28873318.19 0.2754 0.1197

Mercury -83761-09-05 21:20 J -28872033.70 -28872033.61 -28872033.53 0.2584 0.2101

Mercury -83751-03-04 00:13 J -28868567.61 -28868567.49 -28868567.38 0.2754 0.0180

Mercury -83741-08-31 21:06 J -28864733.74 -28864733.62 -28864733.49 0.2583 0.1343

Mercury -83738-03-06 19:25 J -28863816.78 -28863816.69 -28863816.60 0.2753 0.1559

Mercury -83731-02-27 14:52 J -28861266.94 -28861266.88 -28861266.81 0.2754 0.2264

Mercury -83728-09-04 00:28 J -28859982.63 -28859982.48 -28859982.33 0.2583 0.0604

Mercury -83718-03-02 10:04 J -28856516.19 -28856516.08 -28856515.98 0.2754 0.0915

Mercury -83715-09-07 03:20 J -28855231.40 -28855231.36 -28855231.32 0.2584 0.2487

Mercury -83705-03-04 05:16 J -28851765.40 -28851765.28 -28851765.17 0.2753 0.0462

Mercury -83695-09-02 03:20 J -28847931.50 -28847931.36 -28847931.22 0.2583 0.0935

Mercury -83692-03-07 00:28 J -28847014.56 -28847014.48 -28847014.40 0.2753 0.1846

Mercury -83685-02-28 19:54 J -28844464.74 -28844464.67 -28844464.59 0.2754 0.1987

Mercury -83682-09-05 06:28 J -28843180.36 -28843180.23 -28843180.09 0.2584 0.1000

Venus -83679-08-21 03:49 J -28842099.46 -28842099.34 -28842099.22 0.2583 0.1730

Mercury -83672-03-02 15:06 J -28839713.98 -28839713.87 -28839713.77 0.2754 0.0645

Venus -83671-08-18 19:25 J -28839179.77 -28839179.69 -28839179.60 0.2583 0.2184

Mercury -83662-08-31 05:59 J -28835880.28 -28835880.25 -28835880.22 0.2583 0.2515

Mercury -83659-03-05 10:04 J -28834963.18 -28834963.08 -28834962.97 0.2753 0.0745

Mercury -83649-09-02 09:35 J -28831129.25 -28831129.10 -28831128.95 0.2583 0.0531

Mercury -83646-03-08 05:30 J -28830212.34 -28830212.27 -28830212.20 0.2753 0.2136

Mercury -83639-03-01 00:56 J -28827662.55 -28827662.46 -28827662.37 0.2754 0.1711

Mercury -83636-09-05 12:42 J -28826378.09 -28826377.97 -28826377.84 0.2584 0.1399

Mercury -83626-03-03 19:54 J -28822911.78 -28822911.67 -28822911.56 0.2754 0.0361

Mercury -83616-08-31 12:13 J -28819078.08 -28819077.99 -28819077.90 0.2583 0.2099

Mercury -83613-03-05 15:06 J -28818160.97 -28818160.87 -28818160.76 0.2753 0.1025

Mercury -83603-09-03 15:35 J -28814327.00 -28814326.85 -28814326.70 0.2583 0.0141

Mercury -83600-03-08 10:32 J -28813410.11 -28813410.06 -28813410.01 0.2752 0.2427

Mercury -83593-03-01 05:59 J -28810860.35 -28810860.25 -28810860.16 0.2754 0.1431

Mercury -83590-09-06 18:42 J -28809575.82 -28809575.72 -28809575.61 0.2584 0.1790

Mercury -83580-03-04 00:56 J -28806109.57 -28806109.46 -28806109.35 0.2754 0.0080

Venus -83573-02-20 22:18 J -28803564.69 -28803564.57 -28803564.45 0.2754 0.1781

Mercury -83570-09-01 18:28 J -28802275.85 -28802275.73 -28802275.62 0.2583 0.1691

Mercury -83567-03-06 20:08 J -28801358.76 -28801358.66 -28801358.56 0.2753 0.1307

Venus -83565-02-18 13:25 J -28800644.94 -28800644.94 -28800644.93 0.2753 0.2746

Mercury -83560-02-27 15:49 J -28798808.88 -28798808.84 -28798808.79 0.2754 0.2490

Mercury -83557-09-03 21:49 J -28797524.74 -28797524.59 -28797524.44 0.2583 0.0280

Mercury -83554-03-09 15:35 J -28796607.87 -28796607.85 -28796607.84 0.2752 0.2712

Mercury -83547-03-02 10:47 J -28794058.15 -28794058.05 -28794057.94 0.2754 0.1154

Mercury -83544-09-07 00:56 J -28792773.54 -28792773.46 -28792773.38 0.2584 0.2185

Mercury -83534-03-05 05:59 J -28789307.36 -28789307.25 -28789307.14 0.2753 0.0213

Mercury -83524-09-02 00:28 J -28785473.61 -28785473.48 -28785473.34 0.2583 0.1285

Mercury -83521-03-07 01:11 J -28784556.54 -28784556.45 -28784556.36 0.2753 0.1595

Mercury -83514-02-28 20:52 J -28782006.69 -28782006.63 -28782006.57 0.2754 0.2215

Mercury -83511-09-05 04:04 J -28780722.48 -28780722.33 -28780722.19 0.2584 0.0678

Mercury -83501-03-02 15:49 J -28777255.94 -28777255.84 -28777255.73 0.2754 0.0874

Mercury -83498-09-08 06:56 J -28775971.21 -28775971.21 -28775971.20 0.2584 0.2576

Mercury -83488-03-05 11:01 J -28772505.15 -28772505.04 -28772504.93 0.2753 0.0497

Mercury -83478-09-03 06:42 J -28768671.36 -28768671.22 -28768671.08 0.2583 0.0880

Mercury -83475-03-08 06:13 J -28767754.32 -28767754.24 -28767754.16 0.2753 0.1885

Mercury -83468-03-01 01:54 J -28765204.50 -28765204.42 -28765204.35 0.2754 0.1944

Mercury -83465-09-05 10:04 J -28763920.21 -28763920.08 -28763919.94 0.2584 0.1073

Mercury -83455-03-03 20:52 J -28760453.74 -28760453.63 -28760453.52 0.2754 0.0598

Mercury -83445-08-31 09:20 J -28756620.15 -28756620.11 -28756620.07 0.2583 0.2462

Mercury -83442-03-06 16:04 J -28755702.94 -28755702.83 -28755702.73 0.2753 0.0781

Venus -83436-08-21 05:30 J -28753343.39 -28753343.27 -28753343.16 0.2584 0.1864

Mercury -83432-09-03 12:56 J -28751869.11 -28751868.96 -28751868.81 0.2583 0.0472

Mercury -83429-03-08 11:16 J -28750952.10 -28750952.03 -28750951.96 0.2752 0.2172

Venus -83428-08-18 20:52 J -28750423.72 -28750423.63 -28750423.53 0.2584 0.2080

Mercury -83422-03-02 06:42 J -28748402.30 -28748402.22 -28748402.13 0.2754 0.1664

Mercury -83419-09-06 16:04 J -28747117.95 -28747117.83 -28747117.70 0.2584 0.1466

Mercury -83409-03-04 01:54 J -28743651.54 -28743651.42 -28743651.31 0.2753 0.0331

Mercury -83399-09-01 15:35 J -28739817.94 -28739817.85 -28739817.76 0.2583 0.2046

Mercury -83396-03-06 20:52 J -28738900.73 -28738900.63 -28738900.52 0.2753 0.1063

Mercury -83389-02-28 16:47 J -28736350.81 -28736350.80 -28736350.78 0.2754 0.2718

Mercury -83386-09-04 19:11 J -28735066.85 -28735066.70 -28735066.55 0.2584 0.0063

Mercury -83383-03-09 16:18 J -28734149.87 -28734149.82 -28734149.77 0.2752 0.2457

Mercury -83376-03-02 11:44 J -28731600.11 -28731600.01 -28731599.91 0.2754 0.1390

Mercury -83373-09-06 22:18 J -28730315.67 -28730315.57 -28730315.47 0.2584 0.1868

Mercury -83363-03-05 06:42 J -28726849.33 -28726849.22 -28726849.10 0.2753 0.0104

Mercury -83353-09-01 21:49 J -28723015.71 -28723015.59 -28723015.48 0.2583 0.1635

Mercury -83350-03-08 01:54 J -28722098.52 -28722098.42 -28722098.32 0.2753 0.1347

Mercury -83343-02-28 21:49 J -28719548.64 -28719548.59 -28719548.54 0.2754 0.2445

Mercury -83340-09-05 01:11 J -28718264.59 -28718264.45 -28718264.30 0.2584 0.0353

Mercury -83337-03-09 21:20 J -28717347.62 -28717347.61 -28717347.61 0.2752 0.2746

Venus -83330-02-20 22:47 J -28714808.68 -28714808.55 -28714808.42 0.2753 0.1419

Mercury -83330-03-03 16:47 J -28714797.90 -28714797.80 -28714797.70 0.2754 0.1113

Mercury -83327-09-08 04:32 J -28713513.38 -28713513.31 -28713513.24 0.2584 0.2264

Mercury -83317-03-05 11:44 J -28710047.12 -28710047.01 -28710046.90 0.2753 0.0248

Mercury -83307-09-03 03:49 J -28706213.47 -28706213.34 -28706213.20 0.2583 0.1227

Mercury -83304-03-08 06:56 J -28705296.30 -28705296.21 -28705296.12 0.2753 0.1632

Mercury -83297-03-01 02:52 J -28702746.45 -28702746.38 -28702746.32 0.2754 0.2173

Mercury -83294-09-06 07:25 J -28701462.33 -28701462.19 -28701462.04 0.2584 0.0748

Mercury -83284-03-03 21:35 J -28697995.70 -28697995.60 -28697995.49 0.2754 0.0841

Mercury -83271-03-06 16:47 J -28693244.91 -28693244.80 -28693244.69 0.2753 0.0530

Mercury -83261-09-03 10:04 J -28689411.22 -28689411.08 -28689410.93 0.2583 0.0817

Mercury -83258-03-09 11:59 J -28688494.08 -28688494.00 -28688493.92 0.2752 0.1914

Mercury -83251-03-02 07:40 J -28685944.26 -28685944.18 -28685944.10 0.2753 0.1894

Mercury -83248-09-06 13:40 J -28684660.07 -28684659.93 -28684659.80 0.2584 0.1144

Mercury -83238-03-05 02:37 J -28681193.50 -28681193.39 -28681193.28 0.2753 0.0556

Mercury -83228-09-01 12:28 J -28677360.03 -28677359.98 -28677359.93 0.2583 0.2415

Mercury -83225-03-06 21:49 J -28676442.70 -28676442.59 -28676442.49 0.2753 0.0815

Mercury -83215-09-04 16:18 J -28672608.97 -28672608.82 -28672608.67 0.2584 0.0407

Mercury -83212-03-09 17:01 J -28671691.86 -28671691.79 -28671691.73 0.2752 0.2202

Mercury -83205-03-02 12:42 J -28669142.06 -28669141.97 -28669141.88 0.2753 0.1623

Mercury -83202-09-07 19:40 J -28667857.80 -28667857.68 -28667857.56 0.2584 0.1547

Venus -83193-08-21 06:28 J -28664587.34 -28664587.23 -28664587.12 0.2584 0.1915

Mercury -83192-03-05 07:40 J -28664391.29 -28664391.18 -28664391.07 0.2753 0.0272

Venus -83185-08-18 22:04 J -28661667.68 -28661667.58 -28661667.48 0.2585 0.2016

Mercury -83182-09-02 18:42 J -28660557.81 -28660557.72 -28660557.62 0.2583 0.2002

Mercury -83179-03-08 02:52 J -28659640.49 -28659640.38 -28659640.28 0.2753 0.1104

Mercury -83172-02-28 22:47 J -28657090.57 -28657090.55 -28657090.53 0.2753 0.2674

Mercury -83169-09-04 22:32 J -28655806.71 -28655806.56 -28655806.41 0.2584 0.0038

Mercury -83166-03-10 22:04 J -28654889.63 -28654889.58 -28654889.54 0.2752 0.2490

Mercury -83159-03-03 17:44 J -28652339.86 -28652339.76 -28652339.67 0.2753 0.1349

Mercury -83156-09-08 01:54 J -28651055.52 -28651055.42 -28651055.32 0.2584 0.1941

Mercury -83146-03-06 12:42 J -28647589.09 -28647588.97 -28647588.86 0.2753 0.0070

Mercury -83136-09-03 00:56 J -28643755.58 -28643755.46 -28643755.34 0.2584 0.1587

Mercury -83133-03-08 07:40 J -28642838.27 -28642838.18 -28642838.08 0.2753 0.1383

Mercury -83126-03-02 03:35 J -28640288.40 -28640288.35 -28640288.29 0.2753 0.2402

Mercury -83123-09-06 04:47 J -28639004.45 -28639004.30 -28639004.15 0.2584 0.0408

Mercury -83113-03-03 22:32 J -28635537.66 -28635537.56 -28635537.46 0.2753 0.1071

Mercury -83110-09-09 07:54 J -28634253.23 -28634253.17 -28634253.10 0.2584 0.2334

Mercury -83100-03-06 17:30 J -28630786.88 -28630786.77 -28630786.65 0.2753 0.0301

Mercury -83090-09-04 07:11 J -28626953.33 -28626953.20 -28626953.06 0.2584 0.1169

Venus -83087-02-20 23:30 J -28626052.66 -28626052.52 -28626052.38 0.2752 0.1086

Mercury -83087-03-09 12:42 J -28626036.06 -28626035.97 -28626035.88 0.2752 0.1666

Mercury -83080-03-02 08:37 J -28623486.21 -28623486.14 -28623486.07 0.2753 0.2127

Mercury -83077-09-06 10:47 J -28622202.19 -28622202.05 -28622201.90 0.2584 0.0809

Mercury -83067-03-05 03:35 J -28618735.46 -28618735.35 -28618735.24 0.2753 0.0791

Mercury -83054-03-07 22:32 J -28613984.67 -28613984.56 -28613984.45 0.2753 0.0567

Mercury -83044-09-04 13:25 J -28610151.08 -28610150.94 -28610150.79 0.2584 0.0755

Mercury -83041-03-09 17:44 J -28609233.84 -28609233.76 -28609233.68 0.2752 0.1950

Mercury -83034-03-03 13:40 J -28606684.01 -28606683.93 -28606683.85 0.2753 0.1854

Mercury -83031-09-07 17:01 J -28605399.92 -28605399.79 -28605399.65 0.2584 0.1217

Mercury -83021-03-05 08:37 J -28601933.25 -28601933.14 -28601933.03 0.2753 0.0527

Mercury -83011-09-02 15:49 J -28598099.90 -28598099.84 -28598099.78 0.2584 0.2363

Mercury -83008-03-08 03:35 J -28597182.46 -28597182.35 -28597182.24 0.2753 0.0851

83RD MILLENNIUM BCE

This is a list of transits visible from Earth in the 83rd millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-82998-09-05 19:40 J	-28593348.83	-28593348.68	-28593348.53	0.2584	0.0349		
Mercury	-82995-03-10 22:47 J	-28592431.62	-28592431.55	-28592431.49	0.2752	0.2234		
Mercury	-82988-03-03 18:28 J	-28589881.82	-28589881.73	-28589881.63	0.2753	0.1582		
Mercury	-82985-09-07 23:16 J	-28588597.65	-28588597.53	-28588597.42	0.2584	0.1615		
Mercury	-82975-03-06 13:25 J	-28585131.05	-28585130.94	-28585130.83	0.2753	0.0246		
Mercury	-82965-09-02 22:04 J	-28581297.68	-28581297.58	-28581297.48	0.2584	0.1952		
Mercury	-82962-03-09 08:37 J	-28580380.25	-28580380.14	-28580380.04	0.2753	0.1132		
Mercury	-82955-03-02 04:47 J	-28577830.33	-28577830.30	-28577830.27	0.2753	0.2627		
Mercury	-82952-09-06 01:54 J	-28576546.57	-28576546.42	-28576546.27	0.2584	0.0065		
Venus	-82950-08-22 07:40 J	-28575831.28	-28575831.18	-28575831.08	0.2585	0.2026		
Mercury	-82949-03-11 03:49 J	-28575629.39	-28575629.34	-28575629.30	0.2752	0.2523		
Mercury	-82942-03-04 23:30 J	-28573079.62	-28573079.52	-28573079.42	0.2753	0.1303		
Venus	-82942-08-19 23:01 J	-28572911.64	-28572911.54	-28572911.43	0.2586	0.1960		
Mercury	-82939-09-09 05:16 J	-28571795.37	-28571795.28	-28571795.18	0.2584	0.2012		

Mercury -82929-03-06 18:28 J -28568328.84 -28568328.73 -28568328.62 0.2753 0.0045

Mercury -82919-09-04 04:18 J -28564495.44 -28564495.32 -28564495.20 0.2584 0.1530

Mercury -82916-03-09 13:40 J -28563578.03 -28563577.93 -28563577.84 0.2752 0.1420

Mercury -82909-03-02 09:35 J -28561028.15 -28561028.10 -28561028.04 0.2753 0.2355

Mercury -82906-09-07 08:08 J -28559744.31 -28559744.16 -28559744.02 0.2584 0.0470

Mercury -82896-03-05 04:32 J -28556277.42 -28556277.31 -28556277.21 0.2753 0.1028

Mercury -82893-09-09 11:30 J -28554993.07 -28554993.02 -28554992.97 0.2584 0.2407

Mercury -82883-03-07 23:30 J -28551526.63 -28551526.52 -28551526.41 0.2753 0.0331

Mercury -82873-09-04 10:32 J -28547693.20 -28547693.06 -28547692.92 0.2584 0.1119

Mercury -82870-03-10 18:28 J -28546775.81 -28546775.73 -28546775.64 0.2752 0.1701

Mercury -82863-03-03 14:37 J -28544225.96 -28544225.89 -28544225.82 0.2753 0.2082

Mercury -82860-09-07 14:08 J -28542942.05 -28542941.91 -28542941.76 0.2584 0.0878

Mercury -82850-03-06 09:20 J -28539475.21 -28539475.11 -28539475.00 0.2753 0.0756

Venus -82844-02-20 23:59 J -28537296.64 -28537296.50 -28537296.35 0.2751 0.0746

Mercury -82837-03-08 04:32 J -28534724.42 -28534724.31 -28534724.21 0.2752 0.0618

Mercury -82827-09-05 16:47 J -28530890.95 -28530890.80 -28530890.66 0.2584 0.0710

Mercury -82824-03-10 23:30 J -28529973.60 -28529973.52 -28529973.44 0.2752 0.1984

Mercury -82817-03-03 19:25 J -28527423.77 -28527423.69 -28527423.60 0.2753 0.1812

Mercury -82814-09-08 20:23 J -28526139.78 -28526139.65 -28526139.52 0.2584 0.1273

Mercury -82804-03-06 14:23 J -28522673.01 -28522672.90 -28522672.79 0.2753 0.0472

Mercury -82794-09-03 18:56 J -28518839.77 -28518839.71 -28518839.65 0.2584 0.2323

Mercury -82791-03-09 09:20 J -28517922.21 -28517922.11 -28517922.00 0.2752 0.0886

Mercury -82781-09-05 23:01 J -28514088.69 -28514088.54 -28514088.39 0.2584 0.0299

Mercury -82778-03-12 04:32 J -28513171.37 -28513171.31 -28513171.25 0.2752 0.2267

Mercury -82771-03-05 00:28 J -28510621.57 -28510621.48 -28510621.39 0.2753 0.1537

Mercury -82768-09-09 02:37 J -28509337.50 -28509337.39 -28509337.28 0.2584 0.1678

Mercury -82758-03-07 19:25 J -28505870.81 -28505870.69 -28505870.58 0.2753 0.0214

Mercury -82748-09-04 01:11 J -28502037.55 -28502037.45 -28502037.34 0.2584 0.1898

Mercury -82745-03-09 14:23 J -28501120.00 -28501119.90 -28501119.80 0.2752 0.1168

Mercury -82738-03-03 10:32 J -28498570.09 -28498570.06 -28498570.02 0.2753 0.2582

Mercury -82735-09-07 05:16 J -28497286.44 -28497286.28 -28497286.13 0.2584 0.0130

Mercury -82732-03-12 09:35 J -28496369.14 -28496369.10 -28496369.06 0.2752 0.2552

Mercury -82725-03-05 05:30 J -28493819.37 -28493819.27 -28493819.18 0.2753 0.1268

Mercury -82722-09-10 08:37 J -28492535.22 -28492535.14 -28492535.05 0.2584 0.2079

Mercury -82712-03-08 00:13 J -28489068.60 -28489068.49 -28489068.37 0.2752 0.0114

Venus -82707-08-22 08:37 J -28487075.24 -28487075.14 -28487075.05 0.2586 0.2062

Mercury -82702-09-05 07:25 J -28485235.31 -28485235.19 -28485235.06 0.2584 0.1486

Mercury -82699-03-10 19:25 J -28484317.79 -28484317.69 -28484317.60 0.2752 0.1451

Venus -82699-08-19 23:59 J -28484155.61 -28484155.50 -28484155.39 0.2586 0.1908

Mercury -82692-03-03 15:35 J -28481767.91 -28481767.85 -28481767.79 0.2753 0.2309

Mercury -82689-09-07 11:30 J -28480484.17 -28480484.02 -28480483.87 0.2584 0.0534

Mercury -82679-03-06 10:18 J -28477017.17 -28477017.07 -28477016.96 0.2753 0.0987

Mercury -82676-09-10 14:52 J -28475732.91 -28475732.88 -28475732.84 0.2584 0.2483

Mercury -82666-03-09 05:16 J -28472266.39 -28472266.28 -28472266.17 0.2752 0.0361

Mercury -82656-09-05 13:40 J -28468433.07 -28468432.93 -28468432.79 0.2584 0.1068

Mercury -82653-03-11 00:13 J -28467515.57 -28467515.49 -28467515.40 0.2752 0.1734

Mercury -82646-03-04 20:23 J -28464965.72 -28464965.65 -28464965.57 0.2752 0.2041

Mercury -82643-09-08 17:30 J -28463681.91 -28463681.77 -28463681.63 0.2584 0.0933

Mercury -82633-03-06 15:20 J -28460214.97 -28460214.86 -28460214.75 0.2753 0.0708

Mercury -82620-03-09 10:18 J -28455464.18 -28455464.07 -28455463.96 0.2752 0.0644

Mercury -82610-09-06 19:54 J -28451630.82 -28451630.67 -28451630.52 0.2584 0.0657

Mercury -82607-03-12 05:16 J -28450713.35 -28450713.28 -28450713.20 0.2752 0.2014

Venus -82601-02-22 00:56 J -28448540.62 -28448540.46 -28448540.31 0.2750 0.0421

Mercury -82600-03-05 01:25 J -28448163.52 -28448163.44 -28448163.36 0.2752 0.1767

Mercury -82597-09-08 23:44 J -28446879.64 -28446879.51 -28446879.38 0.2584 0.1343

Mercury -82587-03-07 20:23 J -28443412.77 -28443412.65 -28443412.54 0.2752 0.0448

Mercury -82577-09-03 22:04 J -28439579.65 -28439579.58 -28439579.51 0.2584 0.2278

Mercury -82574-03-10 15:20 J -28438661.97 -28438661.86 -28438661.76 0.2752 0.0929

Mercury -82564-09-07 02:08 J -28434828.56 -28434828.41 -28434828.26 0.2584 0.0242

Mercury -82561-03-12 10:18 J -28433911.13 -28433911.07 -28433911.01 0.2752 0.2302

Mercury -82554-03-06 06:28 J -28431361.33 -28431361.23 -28431361.14 0.2752 0.1495

Mercury -82551-09-10 05:59 J -28430077.36 -28430077.25 -28430077.14 0.2584 0.1741

Mercury -82541-03-08 01:11 J -28426610.56 -28426610.45 -28426610.34 0.2752 0.0165

Mercury -82531-09-05 04:18 J -28422777.42 -28422777.32 -28422777.21 0.2584 0.1862

Mercury -82528-03-10 20:08 J -28421859.76 -28421859.66 -28421859.56 0.2752 0.1204

Mercury -82521-03-03 16:32 J -28419309.85 -28419309.81 -28419309.77 0.2752 0.2536

Mercury -82518-09-08 08:23 J -28418026.30 -28418026.15 -28418026.00 0.2584 0.0178

Mercury -82515-03-13 15:20 J -28417108.90 -28417108.86 -28417108.83 0.2752 0.2584

Mercury -82508-03-06 11:16 J -28414559.13 -28414559.03 -28414558.93 0.2752 0.1220

Mercury -82505-09-10 12:13 J -28413275.07 -28413274.99 -28413274.91 0.2585 0.2150

Mercury -82495-03-09 06:13 J -28409808.35 -28409808.24 -28409808.13 0.2752 0.0126

Mercury -82485-09-05 10:47 J -28405975.18 -28405975.05 -28405974.93 0.2584 0.1438

Mercury -82482-03-12 01:11 J -28405057.54 -28405057.45 -28405057.36 0.2752 0.1484

Mercury -82475-03-04 21:35 J -28402507.67 -28402507.60 -28402507.54 0.2752 0.2271

Mercury -82472-09-08 14:37 J -28401224.04 -28401223.89 -28401223.74 0.2584 0.0582

Venus -82464-08-22 09:35 J -28398319.19 -28398319.10 -28398319.01 0.2587 0.2128

Mercury -82462-03-07 16:18 J -28397756.93 -28397756.82 -28397756.72 0.2752 0.0947

Mercury -82459-09-11 18:13 J -28396472.76 -28396472.74 -28396472.72 0.2585 0.2548

Venus -82456-08-20 00:42 J -28395399.58 -28395399.47 -28395399.35 0.2587 0.1878

Mercury -82449-03-09 11:16 J -28393006.15 -28393006.03 -28393005.92 0.2752 0.0415

Mercury -82439-09-06 17:01 J -28389172.94 -28389172.79 -28389172.65 0.2584 0.1024

Mercury -82436-03-12 06:13 J -28388255.33 -28388255.24 -28388255.16 0.2752 0.1768

Mercury -82429-03-05 02:23 J -28385705.47 -28385705.40 -28385705.32 0.2752 0.1999

Mercury -82426-09-09 20:52 J -28384421.77 -28384421.63 -28384421.49 0.2585 0.1000

Mercury -82416-03-07 21:06 J -28380954.72 -28380954.62 -28380954.51 0.2752 0.0678

Mercury -82403-03-10 16:04 J -28376203.94 -28376203.83 -28376203.72 0.2752 0.0677

Mercury -82393-09-06 23:16 J -28372370.68 -28372370.53 -28372370.38 0.2584 0.0597

Mercury -82390-03-13 11:16 J -28371453.11 -28371453.03 -28371452.96 0.2752 0.2054

Mercury -82383-03-06 07:25 J -28368903.28 -28368903.19 -28368903.11 0.2752 0.1720

Mercury -82380-09-10 03:06 J -28367619.50 -28367619.37 -28367619.24 0.2585 0.1404

Mercury -82370-03-09 02:08 J -28364152.52 -28364152.41 -28364152.30 0.2752 0.0396

Mercury -82360-09-05 01:11 J -28360319.52 -28360319.45 -28360319.38 0.2585 0.2237

Venus -82358-02-22 01:40 J -28359784.58 -28359784.43 -28359784.27 0.2749 0.0131

Mercury -82357-03-10 21:06 J -28359401.73 -28359401.62 -28359401.52 0.2752 0.0957

Mercury -82347-09-08 05:30 J -28355568.42 -28355568.27 -28355568.12 0.2585 0.0184

Mercury -82344-03-13 16:04 J -28354650.89 -28354650.83 -28354650.77 0.2752 0.2330

Mercury -82337-03-06 12:13 J -28352101.08 -28352100.99 -28352100.89 0.2752 0.1452

Mercury -82334-09-11 09:20 J -28350817.22 -28350817.11 -28350817.00 0.2585 0.1817

Mercury -82324-03-09 07:11 J -28347350.31 -28347350.20 -28347350.09 0.2752 0.0129

Mercury -82314-09-06 07:25 J -28343517.29 -28343517.19 -28343517.08 0.2585 0.1814

Mercury -82311-03-12 02:08 J -28342599.51 -28342599.41 -28342599.31 0.2752 0.1242

Mercury -82304-03-04 22:32 J -28340049.60 -28340049.56 -28340049.52 0.2752 0.2492

Mercury -82301-09-08 11:44 J -28338766.17 -28338766.01 -28338765.86 0.2585 0.0236

Mercury -82298-03-14 21:06 J -28337848.65 -28337848.62 -28337848.59 0.2751 0.2614

Mercury -82291-03-07 17:16 J -28335298.88 -28335298.78 -28335298.68 0.2752 0.1176

Mercury -82288-09-11 15:35 J -28334014.93 -28334014.85 -28334014.78 0.2585 0.2216

Mercury -82278-03-10 11:59 J -28330548.11 -28330548.00 -28330547.88 0.2752 0.0193

Mercury -82268-09-06 13:40 J -28326715.06 -28326714.93 -28326714.80 0.2585 0.1398

Mercury -82265-03-12 06:56 J -28325797.30 -28325797.21 -28325797.11 0.2752 0.1525

Mercury -82258-03-06 03:20 J -28323247.42 -28323247.36 -28323247.29 0.2752 0.2227

Mercury -82255-09-09 17:59 J -28321963.90 -28321963.75 -28321963.60 0.2585 0.0644

Mercury -82245-03-07 22:04 J -28318496.68 -28318496.58 -28318496.47 0.2752 0.0912

Mercury -82232-03-10 17:01 J -28313745.90 -28313745.79 -28313745.68 0.2752 0.0438

Mercury -82222-09-07 20:08 J -28309912.81 -28309912.66 -28309912.52 0.2585 0.0971

Venus -82221-08-22 10:32 J -28309563.15 -28309563.06 -28309562.98 0.2587 0.2182

Mercury -82219-03-13 11:59 J -28308995.08 -28308995.00 -28308994.91 0.2752 0.1803

Venus -82213-08-20 01:40 J -28306643.55 -28306643.43 -28306643.32 0.2588 0.1839

Mercury -82212-03-06 08:23 J -28306445.23 -28306445.15 -28306445.07 0.2752 0.1948

Mercury -82209-09-10 00:13 J -28305161.63 -28305161.49 -28305161.35 0.2585 0.1054

Mercury -82199-03-09 03:06 J -28301694.48 -28301694.37 -28301694.26 0.2752 0.0629

Mercury -82186-03-11 22:04 J -28296943.69 -28296943.58 -28296943.47 0.2752 0.0718

Mercury -82176-09-08 02:23 J -28293110.55 -28293110.40 -28293110.25 0.2585 0.0548

Mercury -82173-03-13 17:01 J -28292192.86 -28292192.79 -28292192.72 0.2751 0.2084

Mercury -82166-03-07 13:25 J -28289643.03 -28289642.94 -28289642.86 0.2752 0.1683

Mercury -82163-09-11 06:28 J -28288359.36 -28288359.23 -28288359.11 0.2585 0.1468

Mercury -82153-03-09 08:08 J -28284892.27 -28284892.16 -28284892.05 0.2752 0.0359

Mercury -82143-09-06 04:18 J -28281059.40 -28281059.32 -28281059.24 0.2585 0.2192

Mercury -82140-03-12 02:52 J -28280141.48 -28280141.38 -28280141.27 0.2752 0.1005

Mercury -82133-03-04 23:30 J -28277591.53 -28277591.52 -28277591.50 0.2751 0.2718

Mercury -82130-09-09 08:37 J -28276308.29 -28276308.14 -28276307.98 0.2585 0.0131

Mercury -82127-03-14 22:04 J -28275390.64 -28275390.58 -28275390.53 0.2751 0.2367

Mercury -82120-03-07 18:13 J -28272840.83 -28272840.74 -28272840.64 0.2752 0.1408

Mercury -82117-09-11 12:42 J -28271557.08 -28271556.97 -28271556.87 0.2585 0.1876

Venus -82115-02-22 02:52 J -28271028.54 -28271028.38 -28271028.23 0.2748 0.0203

Mercury -82107-03-10 12:56 J -28268090.07 -28268089.96 -28268089.84 0.2752 0.0117

Mercury -82097-09-06 10:32 J -28264257.17 -28264257.06 -28264256.95 0.2585 0.1769

Mercury -82094-03-13 07:54 J -28263339.27 -28263339.17 -28263339.07 0.2751 0.1278

Mercury -82087-03-06 04:32 J -28260789.36 -28260789.31 -28260789.26 0.2751 0.2443

Mercury -82084-09-09 14:52 J -28259506.03 -28259505.88 -28259505.73 0.2585 0.0288

Mercury -82081-03-15 02:52 J -28258588.40 -28258588.38 -28258588.35 0.2751 0.2651

Mercury -82074-03-08 23:16 J -28256038.63 -28256038.53 -28256038.43 0.2752 0.1138

Mercury -82071-09-12 18:56 J -28254754.78 -28254754.71 -28254754.64 0.2585 0.2287

Mercury -82061-03-10 17:59 J -28251287.86 -28251287.75 -28251287.64 0.2752 0.0199

Mercury -82051-09-07 17:01 J -28247454.92 -28247454.79 -28247454.66 0.2585 0.1343

Mercury -82048-03-13 12:56 J -28246537.05 -28246536.96 -28246536.87 0.2751 0.1555

Mercury -82041-03-06 09:20 J -28243987.17 -28243987.11 -28243987.04 0.2751 0.2176

Mercury -82038-09-10 21:06 J -28242703.76 -28242703.62 -28242703.47 0.2585 0.0704

Mercury -82028-03-09 04:04 J -28239236.43 -28239236.33 -28239236.22 0.2751 0.0861

Mercury -82015-03-11 23:01 J -28234485.65 -28234485.54 -28234485.43 0.2752 0.0481

Mercury -82005-09-07 23:16 J -28230652.68 -28230652.53 -28230652.39 0.2585 0.0923

Mercury -82002-03-14 17:44 J -28229734.84 -28229734.76 -28229734.67 0.2751 0.1838

82ND MILLENNIUM BCE

This is a list of transits visible from Earth in the 82nd millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-81995-03-07 14:23 J	-28227184.98	-28227184.90	-28227184.82	0.2751	0.1904		
Mercury	-81992-09-11 03:20 J	-28225901.49	-28225901.36	-28225901.22	0.2585	0.1118		
Mercury	-81982-03-10 09:06 J	-28222434.23	-28222434.12	-28222434.01	0.2751	0.0586		
Venus	-81978-08-23 11:16 J	-28220807.11	-28220807.03	-28220806.95	0.2588	0.2220		
Venus	-81970-08-21 02:23 J	-28217887.52	-28217887.40	-28217887.29	0.2589	0.1812		
Mercury	-81969-03-12 03:49 J	-28217683.44	-28217683.34	-28217683.23	0.2751	0.0765		
Mercury	-81959-09-09 05:30 J	-28213850.42	-28213850.27	-28213850.12	0.2585	0.0502		
Mercury	-81956-03-14 22:47 J	-28212932.62	-28212932.55	-28212932.48	0.2751	0.2119		
Mercury	-81949-03-07 19:11 J	-28210382.78	-28210382.70	-28210382.61	0.2751	0.1639		
Mercury	-81946-09-12 09:35 J	-28209099.22	-28209099.10	-28209098.98	0.2585	0.1526		
Mercury	-81936-03-10 14:08 J	-28205632.03	-28205631.91	-28205631.80	0.2751	0.0327		
Mercury	-81926-09-07 07:11 J	-28201799.28	-28201799.20	-28201799.11	0.2585	0.2160		
Mercury	-81923-03-13 08:52 J	-28200881.23	-28200881.13	-28200881.03	0.2751	0.1035		
Mercury	-81916-03-06 05:30 J	-28198331.29	-28198331.27	-28198331.24	0.2751	0.2667		
Mercury	-81913-09-09 11:44 J	-28197048.16	-28197048.01	-28197047.86	0.2585	0.0085		
Mercury	-81910-03-16 03:49 J	-28196130.39	-28196130.34	-28196130.29	0.2751	0.2402		
Mercury	-81903-03-09 00:13 J	-28193580.59	-28193580.49	-28193580.39	0.2751	0.1363		
Mercury	-81900-09-12 15:49 J	-28192296.94	-28192296.84	-28192296.74	0.2585	0.1936		

Mercury -81890-03-11 18:56 J -28188829.82 -28188829.71 -28188829.60 0.2751 0.0043

Mercury -81880-09-07 13:40 J -28184997.04 -28184996.93 -28184996.81 0.2585 0.1724

Mercury -81877-03-13 13:54 J -28184079.02 -28184078.92 -28184078.83 0.2751 0.1316

Venus -81872-02-22 04:04 J -28182272.49 -28182272.33 -28182272.18 0.2747 0.0469

Mercury -81870-03-07 10:32 J -28181529.11 -28181529.06 -28181529.01 0.2751 0.2401

Mercury -81867-09-10 17:59 J -28180245.90 -28180245.75 -28180245.59 0.2585 0.0344

Mercury -81864-03-16 08:52 J -28179328.15 -28179328.13 -28179328.11 0.2751 0.2683

Mercury -81857-03-09 05:16 J -28176778.39 -28176778.28 -28176778.18 0.2751 0.1091

Mercury -81854-09-13 22:04 J -28175494.64 -28175494.58 -28175494.52 0.2585 0.2342

Mercury -81844-03-11 23:59 J -28172027.61 -28172027.50 -28172027.39 0.2751 0.0248

Mercury -81834-09-08 19:54 J -28168194.80 -28168194.67 -28168194.53 0.2585 0.1299

Mercury -81831-03-14 18:42 J -28167276.81 -28167276.72 -28167276.63 0.2751 0.1591

Mercury -81824-03-07 15:20 J -28164726.92 -28164726.86 -28164726.79 0.2751 0.2132

Mercury -81821-09-11 00:28 J -28163443.63 -28163443.48 -28163443.34 0.2585 0.0762

Mercury -81811-03-10 10:04 J -28159976.18 -28159976.08 -28159975.97 0.2751 0.0820

Mercury -81798-03-13 04:47 J -28155225.41 -28155225.30 -28155225.19 0.2751 0.0521

Mercury -81788-09-09 02:23 J -28151392.55 -28151392.40 -28151392.26 0.2585 0.0875

Mercury -81785-03-14 23:44 J -28150474.59 -28150474.51 -28150474.43 0.2751 0.1874

Mercury -81778-03-08 20:23 J -28147924.73 -28147924.65 -28147924.57 0.2751 0.1861

Mercury -81775-09-12 06:42 J -28146641.36 -28146641.22 -28146641.09 0.2585 0.1175

Mercury -81765-03-10 15:06 J -28143173.98 -28143173.87 -28143173.76 0.2751 0.0547

Mercury -81755-09-07 04:04 J -28139341.36 -28139341.33 -28139341.31 0.2586 0.2551

Mercury -81752-03-13 09:49 J -28138423.20 -28138423.09 -28138422.98 0.2751 0.0792

Mercury -81742-09-10 08:37 J -28134590.29 -28134590.14 -28134589.99 0.2585 0.0456

Mercury -81739-03-16 04:47 J -28133672.37 -28133672.30 -28133672.24 0.2751 0.2153

Venus -81735-08-23 11:59 J -28132051.07 -28132051.00 -28132050.92 0.2589 0.2264

Mercury -81732-03-09 01:25 J -28131122.53 -28131122.44 -28131122.36 0.2751 0.1592

Mercury -81729-09-12 12:56 J -28129839.08 -28129838.96 -28129838.84 0.2585 0.1587

Venus -81727-08-21 03:06 J -28129131.49 -28129131.37 -28129131.26 0.2591 0.1790

Mercury -81719-03-11 19:54 J -28126371.78 -28126371.67 -28126371.56 0.2751 0.0278

Mercury -81709-09-07 10:18 J -28122539.15 -28122539.07 -28122538.98 0.2586 0.2115

Mercury -81706-03-14 14:52 J -28121620.99 -28121620.88 -28121620.78 0.2751 0.1077

Mercury -81699-03-07 11:30 J -28119071.05 -28119071.02 -28119070.98 0.2750 0.2622

Mercury -81696-09-10 14:52 J -28117788.03 -28117787.88 -28117787.72 0.2585 0.0049

Mercury -81693-03-16 09:35 J -28116870.15 -28116870.10 -28116870.05 0.2751 0.2433

Mercury -81686-03-10 06:13 J -28114320.34 -28114320.24 -28114320.14 0.2751 0.1316

Mercury -81683-09-13 19:11 J -28113036.80 -28113036.70 -28113036.61 0.2585 0.1999

Mercury -81673-03-12 00:56 J -28109569.57 -28109569.46 -28109569.35 0.2751 0.0032

Mercury -81663-09-08 16:32 J -28105736.92 -28105736.81 -28105736.69 0.2586 0.1693

Mercury -81660-03-14 19:40 J -28104818.77 -28104818.68 -28104818.58 0.2751 0.1350

Mercury -81653-03-07 16:32 J -28102268.86 -28102268.81 -28102268.75 0.2750 0.2351

Mercury -81650-09-11 21:06 J -28100985.77 -28100985.62 -28100985.46 0.2586 0.0400

Mercury -81647-03-17 14:37 J -28100067.90 -28100067.89 -28100067.88 0.2751 0.2715

Mercury -81640-03-10 11:16 J -28097518.14 -28097518.03 -28097517.93 0.2751 0.1053

Mercury -81637-09-14 01:25 J -28096234.49 -28096234.44 -28096234.39 0.2586 0.2413

Venus -81629-02-23 05:16 J -28093516.43 -28093516.28 -28093516.13 0.2746 0.0714

Mercury -81627-03-13 05:44 J -28092767.37 -28092767.26 -28092767.15 0.2751 0.0297

Mercury -81617-09-08 23:01 J -28088934.67 -28088934.54 -28088934.41 0.2586 0.1261

Mercury -81614-03-16 00:42 J -28088016.56 -28088016.47 -28088016.38 0.2751 0.1633

Mercury -81607-03-08 21:20 J -28085466.68 -28085466.61 -28085466.54 0.2750 0.2087

Mercury -81604-09-12 03:35 J -28084183.50 -28084183.35 -28084183.21 0.2586 0.0809

Mercury -81594-03-11 16:04 J -28080715.94 -28080715.83 -28080715.72 0.2751 0.0776

Mercury -81581-03-13 10:47 J -28075965.16 -28075965.05 -28075964.94 0.2751 0.0557

Mercury -81571-09-10 05:16 J -28072132.42 -28072132.28 -28072132.13 0.2586 0.0837

Mercury -81568-03-16 05:44 J -28071214.34 -28071214.26 -28071214.19 0.2751 0.1910

Mercury -81561-03-09 02:23 J -28068664.48 -28068664.40 -28068664.32 0.2750 0.1816

Mercury -81558-09-13 09:49 J -28067381.23 -28067381.09 -28067380.96 0.2586 0.1227

Mercury -81548-03-11 20:52 J -28063913.73 -28063913.63 -28063913.52 0.2751 0.0516

Mercury -81538-09-08 06:56 J -28060081.24 -28060081.21 -28060081.17 0.2586 0.2508

Mercury -81535-03-14 15:49 J -28059162.95 -28059162.84 -28059162.74 0.2751 0.0837

Mercury -81525-09-10 11:44 J -28055330.16 -28055330.01 -28055329.86 0.2586 0.0403

Mercury -81522-03-17 10:32 J -28054412.12 -28054412.06 -28054411.99 0.2751 0.2188

Mercury -81515-03-10 07:11 J -28051862.29 -28051862.20 -28051862.11 0.2750 0.1550

Mercury -81512-09-13 16:04 J -28050578.95 -28050578.83 -28050578.71 0.2586 0.1644

Mercury -81502-03-13 01:54 J -28047111.53 -28047111.42 -28047111.31 0.2750 0.0229

Venus -81492-08-23 12:28 J -28043295.05 -28043294.98 -28043294.90 0.2590 0.2285

Mercury -81492-09-08 13:11 J -28043279.04 -28043278.95 -28043278.86 0.2586 0.2084

Mercury -81489-03-14 20:37 J -28042360.74 -28042360.64 -28042360.54 0.2751 0.1109

Venus -81484-08-21 03:20 J -28040375.47 -28040375.36 -28040375.24 0.2592 0.1801

Mercury -81482-03-08 17:44 J -28039810.80 -28039810.76 -28039810.73 0.2750 0.2574

Mercury -81479-09-11 17:59 J -28038527.90 -28038527.75 -28038527.59 0.2586 0.0033

Mercury -81476-03-17 15:35 J -28037609.90 -28037609.85 -28037609.80 0.2750 0.2466

Mercury -81469-03-10 12:13 J -28035060.09 -28035059.99 -28035059.89 0.2750 0.1275

Mercury -81466-09-14 22:18 J -28033776.66 -28033776.57 -28033776.48 0.2586 0.2066

Mercury -81456-03-13 06:56 J -28030309.33 -28030309.21 -28030309.10 0.2751 0.0110

Mercury -81446-09-09 19:40 J -28026476.80 -28026476.68 -28026476.56 0.2586 0.1648

Mercury -81443-03-16 01:40 J -28025558.53 -28025558.43 -28025558.34 0.2750 0.1387

Mercury -81436-03-08 22:32 J -28023008.62 -28023008.56 -28023008.50 0.2750 0.2306

Mercury -81433-09-12 00:13 J -28021725.64 -28021725.49 -28021725.33 0.2586 0.0447

Mercury -81430-03-18 20:23 J -28020807.65 -28020807.65 -28020807.64 0.2750 0.2750

Mercury -81423-03-11 17:01 J -28018257.89 -28018257.79 -28018257.68 0.2750 0.1009

Mercury -81420-09-15 04:32 J -28016974.35 -28016974.31 -28016974.27 0.2586 0.2474

Mercury -81410-03-14 11:44 J -28013507.12 -28013507.01 -28013506.90 0.2751 0.0328

Mercury -81400-09-10 01:54 J -28009674.55 -28009674.42 -28009674.28 0.2586 0.1225

Mercury -81397-03-16 06:42 J -28008756.31 -28008756.22 -28008756.14 0.2751 0.1667

Mercury -81390-03-10 03:35 J -28006206.43 -28006206.35 -28006206.28 0.2750 0.2042

Mercury -81387-09-13 06:42 J -28004923.37 -28004923.22 -28004923.08 0.2586 0.0864

Venus -81386-02-23 06:28 J -28004760.37 -28004760.23 -28004760.09 0.2744 0.0996

Mercury -81377-03-11 22:04 J -28001455.69 -28001455.58 -28001455.47 0.2750 0.0732

Mercury -81364-03-14 16:47 J -27996704.91 -27996704.80 -27996704.69 0.2750 0.0597

Mercury -81354-09-11 08:23 J -27992872.30 -27992872.15 -27992872.00 0.2586 0.0788

Mercury -81351-03-17 11:30 J -27991954.10 -27991954.02 -27991953.94 0.2750 0.1944

Mercury -81344-03-10 08:23 J -27989404.23 -27989404.15 -27989404.07 0.2750 0.1771

Mercury -81341-09-13 12:56 J -27988121.09 -27988120.96 -27988120.83 0.2586 0.1280

Mercury -81331-03-13 02:52 J -27984653.48 -27984653.38 -27984653.27 0.2750 0.0474

Mercury -81321-09-08 09:49 J -27980821.13 -27980821.09 -27980821.05 0.2587 0.2486

Mercury -81318-03-15 21:35 J -27979902.70 -27979902.60 -27979902.49 0.2750 0.0877

Mercury -81308-09-11 14:37 J -27976070.04 -27976069.89 -27976069.73 0.2586 0.0368

Mercury -81305-03-17 16:32 J -27975151.88 -27975151.81 -27975151.75 0.2750 0.2221

Mercury -81298-03-11 13:11 J -27972602.04 -27972601.95 -27972601.85 0.2750 0.1506

Mercury -81295-09-14 19:11 J -27971318.81 -27971318.70 -27971318.58 0.2586 0.1700

Mercury -81285-03-13 07:54 J -27967851.28 -27967851.17 -27967851.06 0.2750 0.0189

Mercury -81275-09-09 16:18 J -27964018.92 -27964018.82 -27964018.73 0.2587 0.2049

Mercury -81272-03-16 02:37 J -27963100.49 -27963100.39 -27963100.29 0.2750 0.1146

Mercury -81265-03-08 23:44 J -27960550.55 -27960550.51 -27960550.47 0.2749 0.2532

Mercury -81262-09-12 21:06 J -27959267.78 -27959267.62 -27959267.47 0.2586 0.0074

Mercury -81259-03-18 21:20 J -27958349.65 -27958349.61 -27958349.56 0.2750 0.2503

Mercury -81252-03-11 18:13 J -27955799.84 -27955799.74 -27955799.64 0.2750 0.1234

Venus -81249-08-23 12:56 J -27954539.03 -27954538.96 -27954538.88 0.2592 0.2286

Mercury -81249-09-15 01:25 J -27954516.53 -27954516.44 -27954516.35 0.2586 0.2107

Venus -81241-08-21 04:04 J -27951619.45 -27951619.33 -27951619.22 0.2593 0.1788

Mercury -81239-03-14 12:56 J -27951049.08 -27951048.96 -27951048.85 0.2750 0.0134

Mercury -81229-09-09 22:32 J -27947216.68 -27947216.56 -27947216.44 0.2587 0.1615

Mercury -81226-03-17 07:40 J -27946298.28 -27946298.18 -27946298.09 0.2750 0.1426

Mercury -81219-03-10 04:32 J -27943748.37 -27943748.31 -27943748.25 0.2749 0.2264

Mercury -81216-09-13 03:20 J -27942465.51 -27942465.36 -27942465.21 0.2586 0.0485

Mercury -81206-03-12 23:01 J -27938997.64 -27938997.54 -27938997.43 0.2750 0.0969

Mercury -81203-09-16 07:40 J -27937714.20 -27937714.18 -27937714.15 0.2586 0.2529

Mercury -81193-03-14 17:44 J -27934246.87 -27934246.76 -27934246.65 0.2750 0.0357

Mercury -81183-09-11 05:01 J -27930414.43 -27930414.29 -27930414.15 0.2587 0.1176

Mercury -81180-03-17 12:28 J -27929496.07 -27929495.98 -27929495.89 0.2750 0.1698

Mercury -81173-03-10 09:35 J -27926946.18 -27926946.10 -27926946.03 0.2749 0.1996

Mercury -81170-09-14 09:35 J -27925663.24 -27925663.10 -27925662.95 0.2586 0.0916

Mercury -81160-03-13 04:04 J -27922195.44 -27922195.33 -27922195.22 0.2750 0.0692

Mercury -81147-03-15 22:47 J -27917444.66 -27917444.55 -27917444.45 0.2750 0.0639

Venus -81143-02-23 07:54 J -27916004.30 -27916004.17 -27916004.03 0.2743 0.1224

Mercury -81137-09-11 11:16 J -27913612.18 -27913612.03 -27913611.88 0.2587 0.0755

Mercury -81134-03-18 17:30 J -27912693.85 -27912693.77 -27912693.70 0.2750 0.1975

Mercury -81127-03-11 14:23 J -27910143.98 -27910143.90 -27910143.81 0.2749 0.1726

Mercury -81124-09-14 16:04 J -27908860.96 -27908860.83 -27908860.70 0.2586 0.1333

Mercury -81114-03-14 08:52 J -27905393.24 -27905393.13 -27905393.02 0.2750 0.0431

Mercury -81104-09-09 12:42 J -27901561.02 -27901560.97 -27901560.93 0.2587 0.2456

Mercury -81101-03-16 03:35 J -27900642.45 -27900642.35 -27900642.24 0.2750 0.0907

Mercury -81091-09-12 17:44 J -27896809.92 -27896809.76 -27896809.61 0.2587 0.0325

Mercury -81088-03-18 22:18 J -27895891.63 -27895891.57 -27895891.50 0.2750 0.2252

Mercury -81081-03-11 19:11 J -27893341.79 -27893341.70 -27893341.60 0.2749 0.1462

Mercury -81078-09-15 22:18 J -27892058.68 -27892058.57 -27892058.46 0.2586 0.1746

Mercury -81068-03-14 13:54 J -27888591.03 -27888590.92 -27888590.81 0.2750 0.0148

Mercury -81058-09-10 18:56 J -27884758.80 -27884758.71 -27884758.61 0.2587 0.2021

Mercury -81055-03-17 08:37 J -27883840.24 -27883840.14 -27883840.04 0.2750 0.1185

Mercury -81048-03-10 05:44 J -27881290.30 -27881290.26 -27881290.22 0.2749 0.2482

Mercury -81045-09-12 23:59 J -27880007.66 -27880007.50 -27880007.35 0.2587 0.0098

Mercury -81042-03-20 03:20 J -27879089.40 -27879089.36 -27879089.32 0.2750 0.2530

Mercury -81035-03-13 00:13 J -27876539.59 -27876539.49 -27876539.39 0.2749 0.1192

Mercury -81032-09-16 04:32 J -27875256.39 -27875256.31 -27875256.23 0.2587 0.2166

Mercury -81022-03-15 18:42 J -27871788.83 -27871788.72 -27871788.61 0.2750 0.0147

Mercury -81012-09-11 01:25 J -27867956.56 -27867956.44 -27867956.32 0.2587 0.1586

Mercury -81009-03-17 13:25 J -27867038.03 -27867037.94 -27867037.84 0.2750 0.1457

Venus -81006-08-24 13:25 J -27865783.02 -27865782.94 -27865782.87 0.2593 0.2284

Mercury -81002-03-11 10:32 J -27864488.12 -27864488.06 -27864487.99 0.2749 0.2219

81ST MILLENNIUM BCE

This is a list of transits visible from Earth in the 81st millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-80999-09-14 06:13 J	-27863205.39	-27863205.24	-27863205.08	0.2587	0.0533		
Venus	-80998-08-22 04:04 J	-27862863.45	-27862863.33	-27862863.22	0.2594	0.1851		
Mercury	-80989-03-13 05:01 J	-27859737.39	-27859737.29	-27859737.18	0.2749	0.0925		
Mercury	-80986-09-17 10:47 J	-27858454.06	-27858454.05	-27858454.04	0.2586	0.2577		
Mercury	-80976-03-15 23:44 J	-27854986.62	-27854986.51	-27854986.40	0.2750	0.0396		
Mercury	-80966-09-12 07:54 J	-27851154.31	-27851154.17	-27851154.03	0.2587	0.1155		
Mercury	-80963-03-18 18:28 J	-27850235.82	-27850235.73	-27850235.65	0.2750	0.1732		
Mercury	-80956-03-11 15:35 J	-27847685.93	-27847685.85	-27847685.78	0.2749	0.1951		
Mercury	-80953-09-14 12:42 J	-27846403.12	-27846402.97	-27846402.83	0.2587	0.0951		
Mercury	-80943-03-14 10:04 J	-27842935.19	-27842935.08	-27842934.97	0.2749	0.0651		
Mercury	-80930-03-17 04:32 J	-27838184.41	-27838184.31	-27838184.20	0.2750	0.0675		
Mercury	-80920-09-12 14:08 J	-27834352.05	-27834351.91	-27834351.76	0.2587	0.0719		
Mercury	-80917-03-18 23:16 J	-27833433.60	-27833433.53	-27833433.45	0.2750	0.2011		
Mercury	-80910-03-12 20:23 J	-27830883.73	-27830883.65	-27830883.56	0.2749	0.1687		
Mercury	-80907-09-15 18:56 J	-27829600.84	-27829600.71	-27829600.58	0.2587	0.1377		
Venus	-80900-02-23 09:20 J	-27827248.24	-27827248.11	-27827247.99	0.2742	0.1491		
Mercury	-80897-03-14 14:52 J	-27826132.99	-27826132.88	-27826132.77	0.2749	0.0387		
Mercury	-80887-09-10 15:35 J	-27822300.90	-27822300.85	-27822300.80	0.2587	0.2426		
Mercury	-80884-03-17 09:35 J	-27821382.20	-27821382.10	-27821382.00	0.2749	0.0943		

Mercury -80877-03-10 06:56 J -27818832.23 -27818832.21 -27818832.19 0.2748 0.2699

Mercury -80874-09-13 20:37 J -27817549.80 -27817549.64 -27817549.49 0.2587 0.0292

Mercury -80871-03-20 04:18 J -27816631.38 -27816631.32 -27816631.26 0.2750 0.2286

Mercury -80864-03-13 01:25 J -27814081.54 -27814081.44 -27814081.35 0.2749 0.1420

Mercury -80861-09-16 01:25 J -27812798.55 -27812798.44 -27812798.33 0.2587 0.1799

Mercury -80851-03-15 19:54 J -27809330.78 -27809330.67 -27809330.56 0.2749 0.0133

Mercury -80841-09-10 21:49 J -27805498.68 -27805498.59 -27805498.49 0.2587 0.1992

Mercury -80838-03-18 14:23 J -27804580.00 -27804579.90 -27804579.80 0.2749 0.1217

Mercury -80831-03-11 11:44 J -27802030.06 -27802030.01 -27802029.96 0.2748 0.2437

Mercury -80828-09-14 02:52 J -27800747.53 -27800747.38 -27800747.22 0.2587 0.0163

Mercury -80825-03-20 09:20 J -27799829.15 -27799829.11 -27799829.08 0.2749 0.2563

Mercury -80818-03-14 06:13 J -27797279.34 -27797279.24 -27797279.14 0.2749 0.1146

Mercury -80815-09-17 07:40 J -27795996.26 -27795996.18 -27795996.10 0.2587 0.2217

Mercury -80805-03-16 00:42 J -27792528.58 -27792528.47 -27792528.36 0.2749 0.0177

Mercury -80795-09-12 04:18 J -27788696.45 -27788696.32 -27788696.20 0.2587 0.1557

Mercury -80792-03-18 19:25 J -27787777.78 -27787777.69 -27787777.60 0.2749 0.1488

Mercury -80785-03-11 16:47 J -27785227.87 -27785227.80 -27785227.74 0.2748 0.2173

Mercury -80782-09-15 09:20 J -27783945.26 -27783945.11 -27783944.96 0.2587 0.0570

Mercury -80772-03-14 11:01 J -27780477.14 -27780477.04 -27780476.93 0.2749 0.0886

Venus -80763-08-24 13:25 J -27777027.02 -27777026.94 -27777026.86 0.2594 0.2254

Mercury -80759-03-17 05:44 J -27775726.37 -27775726.26 -27775726.15 0.2749 0.0439

Venus -80755-08-22 04:18 J -27774107.43 -27774107.32 -27774107.21 0.2596 0.1855

Mercury -80749-09-12 10:47 J -27771894.19 -27771894.05 -27771893.91 0.2588 0.1125

Mercury -80746-03-20 00:28 J -27770975.57 -27770975.48 -27770975.40 0.2749 0.1770

Mercury -80739-03-12 21:35 J -27768425.68 -27768425.60 -27768425.52 0.2748 0.1910

Mercury -80736-09-15 15:35 J -27767142.99 -27767142.85 -27767142.70 0.2587 0.0997

Mercury -80726-03-15 16:04 J -27763674.94 -27763674.83 -27763674.72 0.2749 0.0613

Mercury -80713-03-17 10:32 J -27758924.16 -27758924.06 -27758923.95 0.2749 0.0712

Mercury -80703-09-13 17:01 J -27755091.94 -27755091.79 -27755091.64 0.2587 0.0690

Mercury -80700-03-20 05:16 J -27754173.35 -27754173.28 -27754173.21 0.2749 0.2045

Mercury -80693-03-13 02:23 J -27751623.48 -27751623.40 -27751623.31 0.2748 0.1642

Mercury -80690-09-16 22:04 J -27750340.71 -27750340.58 -27750340.46 0.2587 0.1417

Mercury -80680-03-15 20:52 J -27746872.74 -27746872.63 -27746872.52 0.2749 0.0352

Mercury -80670-09-11 18:13 J -27743040.79 -27743040.74 -27743040.68 0.2588 0.2403

Mercury -80667-03-18 15:35 J -27742121.96 -27742121.85 -27742121.75 0.2749 0.0980

Venus -80665-02-26 18:42 J -27741411.76 -27741411.72 -27741411.69 0.2742 0.2654

Mercury -80660-03-11 12:56 J -27739571.98 -27739571.96 -27739571.94 0.2748 0.2658

Venus -80657-02-24 11:01 J -27738492.16 -27738492.04 -27738491.92 0.2740 0.1697

Mercury -80657-09-13 23:30 J -27738289.68 -27738289.52 -27738289.37 0.2588 0.0253

Mercury -80654-03-21 10:18 J -27737371.13 -27737371.07 -27737371.02 0.2749 0.2319

Mercury -80647-03-14 07:25 J -27734821.29 -27734821.19 -27734821.10 0.2748 0.1377

Mercury -80644-09-17 04:18 J -27733538.43 -27733538.32 -27733538.21 0.2587 0.1844

Mercury -80634-03-17 01:54 J -27730070.53 -27730070.42 -27730070.31 0.2749 0.0077

Mercury -80624-09-12 00:42 J -27726238.57 -27726238.47 -27726238.37 0.2588 0.1964

Mercury -80621-03-18 20:23 J -27725319.74 -27725319.65 -27725319.55 0.2749 0.1254

Mercury -80614-03-12 17:44 J -27722769.81 -27722769.76 -27722769.71 0.2748 0.2397

Mercury -80611-09-15 05:44 J -27721487.41 -27721487.26 -27721487.10 0.2588 0.0198

Mercury -80608-03-21 15:06 J -27720568.90 -27720568.87 -27720568.83 0.2749 0.2593

Mercury -80601-03-14 12:13 J -27718019.09 -27718018.99 -27718018.89 0.2748 0.1109

Mercury -80598-09-18 10:47 J -27716736.13 -27716736.05 -27716735.98 0.2587 0.2268

Mercury -80588-03-17 06:42 J -27713268.33 -27713268.22 -27713268.11 0.2749 0.0207

Mercury -80578-09-13 07:11 J -27709436.33 -27709436.20 -27709436.08 0.2588 0.1527

Mercury -80575-03-20 01:25 J -27708517.53 -27708517.44 -27708517.35 0.2749 0.1529

Mercury -80568-03-12 22:47 J -27705967.62 -27705967.55 -27705967.49 0.2748 0.2131

Mercury -80565-09-15 12:13 J -27704685.14 -27704684.99 -27704684.84 0.2588 0.0614

Mercury -80555-03-15 17:01 J -27701216.89 -27701216.79 -27701216.68 0.2748 0.0849

Mercury -80542-03-18 11:44 J -27696466.12 -27696466.01 -27696465.90 0.2749 0.0474

Mercury -80532-09-13 13:25 J -27692634.08 -27692633.94 -27692633.79 0.2588 0.1092

Mercury -80529-03-20 06:13 J -27691715.32 -27691715.24 -27691715.15 0.2749 0.1801

Mercury -80522-03-14 03:35 J -27689165.43 -27689165.35 -27689165.27 0.2748 0.1861

Venus -80520-08-24 13:54 J -27688271.00 -27688270.92 -27688270.84 0.2595 0.2240

Mercury -80519-09-16 18:42 J -27687882.87 -27687882.72 -27687882.58 0.2588 0.1039

Venus -80512-08-22 04:04 J -27685351.43 -27685351.33 -27685351.22 0.2597 0.1933

Mercury -80509-03-15 22:04 J -27684414.69 -27684414.58 -27684414.47 0.2748 0.0571

Mercury -80496-03-18 16:32 J -27679663.91 -27679663.81 -27679663.70 0.2749 0.0744

Mercury -80486-09-14 19:54 J -27675831.82 -27675831.67 -27675831.52 0.2588 0.0653

Mercury -80483-03-21 11:16 J -27674913.10 -27674913.03 -27674912.96 0.2749 0.2073

Mercury -80476-03-14 08:37 J -27672363.23 -27672363.14 -27672363.06 0.2748 0.1602

Mercury -80473-09-17 00:56 J -27671080.59 -27671080.46 -27671080.33 0.2588 0.1467

Mercury -80463-03-17 03:06 J -27667612.48 -27667612.37 -27667612.27 0.2748 0.0318

Mercury -80453-09-11 21:06 J -27663780.68 -27663780.62 -27663780.57 0.2588 0.2387

Mercury -80450-03-19 21:35 J -27662861.70 -27662861.60 -27662861.50 0.2749 0.1019

Mercury -80443-03-12 18:56 J -27660311.74 -27660311.71 -27660311.68 0.2747 0.2615

Mercury -80440-09-15 02:23 J -27659029.56 -27659029.40 -27659029.25 0.2588 0.0221

Mercury -80437-03-21 16:04 J -27658110.88 -27658110.83 -27658110.77 0.2749 0.2351

Mercury -80430-03-15 13:25 J -27655561.04 -27655560.94 -27655560.84 0.2748 0.1330

Mercury -80427-09-18 07:25 J -27654278.30 -27654278.19 -27654278.09 0.2588 0.1892

Venus -80422-02-26 20:23 J -27652655.72 -27652655.65 -27652655.58 0.2740 0.2431

Mercury -80417-03-17 07:54 J -27650810.28 -27650810.17 -27650810.06 0.2748 0.0034

Venus -80414-02-24 12:28 J -27649736.08 -27649735.98 -27649735.87 0.2739 0.1917

Mercury -80407-09-13 03:20 J -27646978.46 -27646978.36 -27646978.25 0.2589 0.1945

Mercury -80404-03-20 02:23 J -27646059.49 -27646059.40 -27646059.30 0.2749 0.1293

Mercury -80397-03-12 23:59 J -27643509.56 -27643509.50 -27643509.45 0.2747 0.2349

Mercury -80394-09-16 08:52 J -27642227.29 -27642227.13 -27642226.98 0.2588 0.0227

Mercury -80391-03-22 21:06 J -27641308.65 -27641308.62 -27641308.59 0.2749 0.2630

Mercury -80384-03-15 18:13 J -27638758.84 -27638758.74 -27638758.64 0.2748 0.1069

Mercury -80381-09-18 13:40 J -27637476.00 -27637475.93 -27637475.86 0.2588 0.2311

Mercury -80371-03-18 12:42 J -27634008.08 -27634007.97 -27634007.86 0.2748 0.0256

Mercury -80361-09-13 09:49 J -27630176.21 -27630176.09 -27630175.96 0.2588 0.1501

Mercury -80358-03-21 07:25 J -27629257.28 -27629257.19 -27629257.10 0.2748 0.1563

Mercury -80351-03-14 04:47 J -27626707.37 -27626707.30 -27626707.23 0.2747 0.2084

Mercury -80348-09-16 15:06 J -27625425.02 -27625424.87 -27625424.72 0.2588 0.0642

Mercury -80338-03-16 23:16 J -27621956.64 -27621956.53 -27621956.43 0.2748 0.0797

Mercury -80325-03-18 17:44 J -27617205.87 -27617205.76 -27617205.65 0.2748 0.0511

Mercury -80315-09-14 16:18 J -27613373.96 -27613373.82 -27613373.67 0.2589 0.1056

Mercury -80312-03-21 12:13 J -27612455.07 -27612454.99 -27612454.91 0.2749 0.1835

Mercury -80305-03-14 09:35 J -27609905.18 -27609905.10 -27609905.01 0.2747 0.1824

Mercury -80302-09-17 21:35 J -27608622.74 -27608622.60 -27608622.46 0.2588 0.1079

Mercury -80292-03-17 04:04 J -27605154.44 -27605154.33 -27605154.22 0.2748 0.0530

Mercury -80279-03-19 22:32 J -27600403.66 -27600403.56 -27600403.45 0.2748 0.0786

Venus -80277-08-24 13:40 J -27599515.02 -27599514.93 -27599514.84 0.2597 0.2186

Venus -80269-08-22 04:18 J -27596595.42 -27596595.32 -27596595.21 0.2598 0.1966

Mercury -80269-09-14 22:47 J -27596571.70 -27596571.55 -27596571.40 0.2588 0.0622

Mercury -80266-03-22 17:16 J -27595652.85 -27595652.78 -27595652.71 0.2748 0.2108

Mercury -80259-03-15 14:37 J -27593102.98 -27593102.89 -27593102.80 0.2747 0.1554

Mercury -80256-09-18 03:49 J -27591820.46 -27591820.34 -27591820.21 0.2588 0.1512

Mercury -80246-03-18 09:06 J -27588352.23 -27588352.12 -27588352.01 0.2748 0.0279

Mercury -80236-09-12 23:44 J -27584520.57 -27584520.51 -27584520.45 0.2589 0.2362

Mercury -80233-03-20 03:35 J -27583601.46 -27583601.35 -27583601.25 0.2748 0.1054

Mercury -80226-03-14 01:11 J -27581051.49 -27581051.45 -27581051.42 0.2747 0.2564

Mercury -80223-09-16 05:16 J -27579769.44 -27579769.28 -27579769.13 0.2588 0.0189

Mercury -80220-03-22 22:04 J -27578850.63 -27578850.58 -27578850.52 0.2748 0.2387

Mercury -80213-03-15 19:25 J -27576300.78 -27576300.69 -27576300.59 0.2747 0.1288

Mercury -80210-09-19 10:18 J -27575018.17 -27575018.07 -27575017.97 0.2588 0.1934

Mercury -80200-03-18 13:54 J -27571550.03 -27571549.92 -27571549.81 0.2748 0.0010

Mercury -80190-09-14 06:13 J -27567718.34 -27567718.24 -27567718.14 0.2589 0.1917

Mercury -80187-03-21 08:23 J -27566799.24 -27566799.15 -27566799.05 0.2748 0.1327

Mercury -80180-03-14 05:59 J -27564249.31 -27564249.25 -27564249.19 0.2746 0.2300

Venus -80179-02-26 22:04 J -27563899.67 -27563899.58 -27563899.50 0.2739 0.2204

Mercury -80177-09-16 11:30 J -27562967.17 -27562967.02 -27562966.86 0.2588 0.0249

Mercury -80174-03-24 03:06 J -27562048.40 -27562048.37 -27562048.35 0.2748 0.2655

Venus -80171-02-24 14:23 J -27560979.99 -27560979.90 -27560979.80 0.2737 0.2108

Mercury -80167-03-17 00:28 J -27559498.59 -27559498.48 -27559498.38 0.2747 0.1022

Mercury -80164-09-19 16:32 J -27558215.87 -27558215.81 -27558215.75 0.2588 0.2359

Mercury -80154-03-19 18:42 J -27554747.82 -27554747.72 -27554747.61 0.2748 0.0302

Mercury -80144-09-14 12:42 J -27550916.10 -27550915.97 -27550915.84 0.2589 0.1473

Mercury -80141-03-21 13:25 J -27549997.03 -27549996.94 -27549996.85 0.2748 0.1598

Mercury -80134-03-15 10:47 J -27547447.12 -27547447.05 -27547446.97 0.2747 0.2042

Mercury -80131-09-17 17:59 J -27546164.90 -27546164.75 -27546164.60 0.2588 0.0685

Mercury -80121-03-17 05:16 J -27542696.39 -27542696.28 -27542696.17 0.2747 0.0754

Mercury -80108-03-19 23:44 J -27537945.62 -27537945.51 -27537945.40 0.2748 0.0552

Mercury -80098-09-15 18:56 J -27534113.85 -27534113.71 -27534113.56 0.2589 0.1042

Mercury -80095-03-22 18:13 J -27533194.82 -27533194.74 -27533194.66 0.2748 0.1873

Mercury -80088-03-15 15:49 J -27530644.92 -27530644.84 -27530644.76 0.2747 0.1775

Mercury -80085-09-18 00:28 J -27529362.62 -27529362.48 -27529362.34 0.2588 0.1116

Mercury -80075-03-18 10:04 J -27525894.18 -27525894.08 -27525893.97 0.2747 0.0497

Mercury -80062-03-21 04:32 J -27521143.41 -27521143.31 -27521143.20 0.2748 0.0823

Mercury -80052-09-16 01:25 J -27517311.59 -27517311.44 -27517311.28 0.2589 0.0598

Mercury -80049-03-22 23:16 J -27516392.60 -27516392.53 -27516392.46 0.2748 0.2146

Mercury -80042-03-16 20:37 J -27513842.73 -27513842.64 -27513842.55 0.2747 0.1510

Mercury -80039-09-19 06:42 J -27512560.34 -27512560.22 -27512560.09 0.2588 0.1542

Venus -80034-08-25 13:54 J -27510759.01 -27510758.92 -27510758.83 0.2598 0.2172

Mercury -80029-03-18 15:06 J -27509091.98 -27509091.87 -27509091.76 0.2747 0.0226

Venus -80026-08-23 04:18 J -27507839.42 -27507839.32 -27507839.22 0.2600 0.2035

Mercury -80019-09-14 02:23 J -27505260.46 -27505260.40 -27505260.33 0.2590 0.2337

Mercury -80016-03-21 09:35 J -27504341.20 -27504341.10 -27504341.00 0.2748 0.1091

Mercury -80009-03-14 07:11 J -27501791.24 -27501791.20 -27501791.16 0.2746 0.2519

Mercury -80006-09-17 07:54 J -27500509.32 -27500509.17 -27500509.01 0.2589 0.0163

Mercury -80003-03-24 04:04 J -27499590.38 -27499590.33 -27499590.28 0.2748 0.2418

80TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 80th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-79996-03-17 01:25 J	-27497040.53	-27497040.44	-27497040.34	0.2747	0.1252		
Mercury	-79993-09-19 13:11 J	-27495758.05	-27495757.95	-27495757.85	0.2588	0.1972		
Mercury	-79983-03-19 19:54 J	-27492289.78	-27492289.67	-27492289.56	0.2747	0.0066		
Mercury	-79973-09-14 08:52 J	-27488458.23	-27488458.13	-27488458.02	0.2589	0.1893		
Mercury	-79970-03-22 14:23 J	-27487538.99	-27487538.90	-27487538.80	0.2748	0.1362		
Mercury	-79963-03-15 12:13 J	-27484989.05	-27484988.99	-27484988.93	0.2746	0.2257		
Mercury	-79960-09-17 14:23 J	-27483707.05	-27483706.90	-27483706.74	0.2589	0.0294		
Mercury	-79957-03-24 09:06 J	-27482788.14	-27482788.12	-27482788.10	0.2748	0.2691		
Mercury	-79950-03-18 06:28 J	-27480238.33	-27480238.23	-27480238.13	0.2747	0.0980		
Mercury	-79947-09-20 19:40 J	-27478955.74	-27478955.68	-27478955.63	0.2588	0.2405		
Mercury	-79937-03-20 00:56 J	-27475487.57	-27475487.46	-27475487.35	0.2747	0.0329		
Venus	-79936-02-26 23:59 J	-27475143.61	-27475143.50	-27475143.40	0.2737	0.2020		
Venus	-79928-02-24 16:18 J	-27472223.90	-27472223.82	-27472223.73	0.2736	0.2285		
Mercury	-79927-09-15 15:20 J	-27471655.99	-27471655.86	-27471655.73	0.2589	0.1453		
Mercury	-79924-03-22 19:25 J	-27470736.78	-27470736.69	-27470736.60	0.2748	0.1634		
Mercury	-79917-03-15 17:01 J	-27468186.86	-27468186.79	-27468186.72	0.2746	0.1991		
Mercury	-79914-09-18 20:52 J	-27466904.78	-27466904.63	-27466904.48	0.2589	0.0718		
Mercury	-79904-03-18 11:16 J	-27463436.13	-27463436.03	-27463435.92	0.2747	0.0716		
Mercury	-79891-03-21 05:44 J	-27458685.37	-27458685.26	-27458685.15	0.2747	0.0588		
Mercury	-79881-09-15 21:49 J	-27454853.73	-27454853.59	-27454853.45	0.2589	0.1010		

Mercury -79878-03-24 00:13 J -27453934.57 -27453934.49 -27453934.41 0.2748 0.1904

Mercury -79871-03-16 21:49 J -27451384.67 -27451384.59 -27451384.50 0.2746 0.1730

Mercury -79868-09-19 03:20 J -27450102.50 -27450102.36 -27450102.22 0.2589 0.1154

Mercury -79858-03-19 16:18 J -27446633.93 -27446633.82 -27446633.72 0.2747 0.0453

Mercury -79845-03-21 10:47 J -27441883.16 -27441883.05 -27441882.95 0.2747 0.0864

Mercury -79838-03-15 08:23 J -27439333.15 -27439333.15 -27439333.14 0.2745 0.2735

Mercury -79835-09-17 04:18 J -27438051.47 -27438051.32 -27438051.17 0.2589 0.0571

Mercury -79832-03-24 05:16 J -27437132.35 -27437132.28 -27437132.22 0.2748 0.2179

Mercury -79825-03-17 02:52 J -27434582.48 -27434582.38 -27434582.29 0.2746 0.1469

Mercury -79822-09-20 09:35 J -27433300.22 -27433300.10 -27433299.98 0.2589 0.1581

Mercury -79812-03-19 21:06 J -27429831.73 -27429831.62 -27429831.51 0.2747 0.0180

Mercury -79802-09-15 05:01 J -27426000.36 -27426000.29 -27426000.22 0.2590 0.2329

Mercury -79799-03-22 15:35 J -27425080.95 -27425080.85 -27425080.75 0.2747 0.1129

Mercury -79792-03-15 13:25 J -27422530.99 -27422530.94 -27422530.90 0.2745 0.2473

Venus -79791-08-25 13:40 J -27422003.03 -27422002.93 -27422002.83 0.2600 0.2085

Mercury -79789-09-17 10:47 J -27421249.21 -27421249.05 -27421248.89 0.2589 0.0127

Mercury -79786-03-25 10:04 J -27420330.12 -27420330.08 -27420330.03 0.2748 0.2451

Venus -79783-08-23 04:04 J -27419083.42 -27419083.33 -27419083.24 0.2601 0.2109

Mercury -79779-03-18 07:40 J -27417780.28 -27417780.18 -27417780.08 0.2746 0.1202

Mercury -79776-09-20 16:04 J -27416497.93 -27416497.83 -27416497.73 0.2589 0.2016

Mercury -79766-03-21 02:08 J -27413029.52 -27413029.41 -27413029.30 0.2747 0.0145

Mercury -79756-09-15 11:30 J -27409198.12 -27409198.02 -27409197.91 0.2590 0.1879

Mercury -79753-03-22 20:23 J -27408278.74 -27408278.65 -27408278.55 0.2747 0.1402

Mercury -79746-03-16 18:13 J -27405728.80 -27405728.74 -27405728.68 0.2745 0.2211

Mercury -79743-09-18 17:01 J -27404446.94 -27404446.79 -27404446.63 0.2589 0.0315

Mercury -79740-03-25 15:06 J -27403527.88 -27403527.87 -27403527.86 0.2747 0.2724

Mercury -79733-03-18 12:28 J -27400978.08 -27400977.98 -27400977.87 0.2746 0.0939

Mercury -79730-09-21 22:32 J -27399695.61 -27399695.56 -27399695.52 0.2589 0.2445

Mercury -79720-03-21 06:56 J -27396227.32 -27396227.21 -27396227.10 0.2747 0.0359

Mercury -79710-09-16 17:59 J -27392395.88 -27392395.75 -27392395.62 0.2590 0.1433

Mercury -79707-03-24 01:25 J -27391476.53 -27391476.44 -27391476.35 0.2747 0.1668

Mercury -79700-03-16 23:01 J -27388926.61 -27388926.54 -27388926.46 0.2745 0.1954

Mercury -79697-09-18 23:44 J -27387644.66 -27387644.51 -27387644.36 0.2589 0.0755

Venus -79693-02-28 01:40 J -27386387.54 -27386387.43 -27386387.31 0.2736 0.1820

Mercury -79687-03-19 17:30 J -27384175.88 -27384175.77 -27384175.67 0.2746 0.0680

Venus -79685-02-25 18:13 J -27383467.80 -27383467.74 -27383467.68 0.2734 0.2467

Mercury -79674-03-22 11:44 J -27379425.11 -27379425.01 -27379424.90 0.2747 0.0629

Mercury -79664-09-17 00:28 J -27375593.62 -27375593.48 -27375593.33 0.2590 0.0985

Mercury -79661-03-24 06:13 J -27374674.31 -27374674.24 -27374674.16 0.2747 0.1943

Mercury -79654-03-18 04:04 J -27372124.42 -27372124.33 -27372124.25 0.2746 0.1686

Mercury -79651-09-20 05:59 J -27370842.39 -27370842.25 -27370842.11 0.2589 0.1184

Mercury -79641-03-19 22:18 J -27367373.68 -27367373.57 -27367373.46 0.2746 0.0408

Mercury -79628-03-22 16:47 J -27362622.91 -27362622.80 -27362622.70 0.2747 0.0898

Mercury -79621-03-15 14:37 J -27360072.91 -27360072.89 -27360072.87 0.2745 0.2686

Mercury -79618-09-18 06:56 J -27358791.36 -27358791.21 -27358791.05 0.2590 0.0545

Mercury -79615-03-25 11:16 J -27357872.10 -27357872.03 -27357871.97 0.2747 0.2210

Mercury -79608-03-18 08:52 J -27355322.22 -27355322.13 -27355322.04 0.2746 0.1422

Mercury -79605-09-20 12:28 J -27354040.10 -27354039.98 -27354039.86 0.2589 0.1626

Mercury -79595-03-21 03:06 J -27350571.48 -27350571.37 -27350571.26 0.2746 0.0166

Mercury -79585-09-15 07:40 J -27346740.25 -27346740.18 -27346740.11 0.2591 0.2309

Mercury -79582-03-23 21:35 J -27345820.70 -27345820.60 -27345820.50 0.2747 0.1162

Mercury -79575-03-16 19:25 J -27343270.74 -27343270.69 -27343270.64 0.2745 0.2428

Mercury -79572-09-18 13:25 J -27341989.10 -27341988.94 -27341988.78 0.2590 0.0103

Mercury -79569-03-25 16:04 J -27341069.87 -27341069.83 -27341069.78 0.2747 0.2481

Mercury -79562-03-19 13:40 J -27338520.02 -27338519.93 -27338519.83 0.2746 0.1160

Mercury -79559-09-21 18:56 J -27337237.81 -27337237.71 -27337237.62 0.2589 0.2052

Mercury -79549-03-21 08:08 J -27333769.27 -27333769.16 -27333769.05 0.2746 0.0140

Venus -79548-08-25 13:40 J -27333247.03 -27333246.93 -27333246.83 0.2601 0.2048

Venus -79540-08-23 03:49 J -27330327.43 -27330327.34 -27330327.25 0.2603 0.2197

Mercury -79539-09-16 14:08 J -27329938.02 -27329937.91 -27329937.80 0.2591 0.1867

Mercury -79536-03-24 02:37 J -27329018.49 -27329018.39 -27329018.30 0.2747 0.1439

Mercury -79529-03-17 00:28 J -27326468.55 -27326468.48 -27326468.42 0.2745 0.2172

Mercury -79526-09-19 19:54 J -27325186.82 -27325186.67 -27325186.51 0.2590 0.0340

Mercury -79516-03-19 18:42 J -27321717.83 -27321717.72 -27321717.62 0.2746 0.0899

Mercury -79513-09-22 01:11 J -27320435.49 -27320435.45 -27320435.40 0.2589 0.2482

Mercury -79503-03-22 12:56 J -27316967.07 -27316966.96 -27316966.85 0.2746 0.0398

Mercury -79493-09-16 20:37 J -27313135.77 -27313135.64 -27313135.51 0.2591 0.1414

Mercury -79490-03-25 07:25 J -27312216.27 -27312216.19 -27312216.10 0.2747 0.1705

Mercury -79483-03-18 05:16 J -27309666.36 -27309666.28 -27309666.20 0.2745 0.1902

Mercury -79480-09-20 02:23 J -27308384.55 -27308384.40 -27308384.25 0.2590 0.0773

Mercury -79470-03-20 23:30 J -27304915.63 -27304915.52 -27304915.41 0.2746 0.0631

Mercury -79457-03-22 17:44 J -27300164.86 -27300164.76 -27300164.65 0.2746 0.0672

Venus -79450-02-28 03:35 J -27297631.47 -27297631.35 -27297631.22 0.2734 0.1635

Mercury -79447-09-18 03:06 J -27296333.51 -27296333.37 -27296333.22 0.2591 0.0970

Mercury -79444-03-25 12:13 J -27295414.06 -27295413.99 -27295413.91 0.2747 0.1977

Venus -79442-02-25 20:23 J -27294711.69 -27294711.65 -27294711.60 0.2732 0.2614

Mercury -79437-03-18 10:04 J -27292864.17 -27292864.08 -27292863.99 0.2745 0.1643

Mercury -79434-09-21 08:52 J -27291582.27 -27291582.13 -27291581.99 0.2590 0.1215

Mercury -79424-03-21 04:18 J -27288113.43 -27288113.32 -27288113.21 0.2746 0.0371

Mercury -79411-03-23 22:47 J -27283362.65 -27283362.55 -27283362.45 0.2746 0.0932

Mercury -79404-03-16 20:37 J -27280812.66 -27280812.64 -27280812.61 0.2744 0.2649

Mercury -79401-09-18 09:35 J -27279531.25 -27279531.10 -27279530.94 0.2590 0.0524

Mercury -79398-03-26 17:16 J -27278611.84 -27278611.78 -27278611.72 0.2747 0.2242

Mercury -79391-03-19 14:52 J -27276061.97 -27276061.88 -27276061.78 0.2745 0.1384

Mercury -79388-09-21 15:06 J -27274779.99 -27274779.87 -27274779.75 0.2590 0.1648

Mercury -79378-03-22 09:20 J -27271311.22 -27271311.11 -27271311.00 0.2746 0.0127

Mercury -79368-09-16 10:18 J -27267480.14 -27267480.07 -27267480.00 0.2591 0.2299

Mercury -79365-03-24 03:35 J -27266560.45 -27266560.35 -27266560.25 0.2746 0.1203

Mercury -79358-03-18 01:40 J -27264010.48 -27264010.43 -27264010.38 0.2744 0.2383

Mercury -79355-09-19 16:04 J -27262728.98 -27262728.83 -27262728.67 0.2590 0.0098

Mercury -79352-03-26 22:04 J -27261809.62 -27261809.58 -27261809.53 0.2747 0.2515

Mercury -79345-03-19 19:54 J -27259259.77 -27259259.67 -27259259.57 0.2745 0.1124

Mercury -79342-09-22 21:35 J -27257977.69 -27257977.60 -27257977.50 0.2590 0.2087

Mercury -79332-03-22 14:08 J -27254509.02 -27254508.91 -27254508.80 0.2746 0.0166

Mercury -79322-09-17 16:47 J -27250677.91 -27250677.80 -27250677.69 0.2591 0.1847

Mercury -79319-03-25 08:37 J -27249758.24 -27249758.14 -27249758.05 0.2746 0.1468

Mercury -79312-03-18 06:28 J -27247208.30 -27247208.23 -27247208.16 0.2744 0.2120

Mercury -79309-09-19 22:32 J -27245926.71 -27245926.56 -27245926.40 0.2590 0.0362

Venus -79305-08-25 13:11 J -27244491.06 -27244490.95 -27244490.84 0.2603 0.1931

Mercury -79299-03-21 00:42 J -27242457.57 -27242457.47 -27242457.37 0.2745 0.0852

Venus -79297-08-23 03:20 J -27241571.44 -27241571.36 -27241571.29 0.2604 0.2308

Mercury -79296-09-23 04:04 J -27241175.36 -27241175.33 -27241175.30 0.2590 0.2513

Mercury -79286-03-23 18:56 J -27237706.81 -27237706.71 -27237706.60 0.2746 0.0441

Mercury -79276-09-17 23:16 J -27233875.66 -27233875.53 -27233875.40 0.2591 0.1400

Mercury -79273-03-25 13:25 J -27232956.02 -27232955.94 -27232955.86 0.2746 0.1734

Mercury -79266-03-19 11:16 J -27230406.11 -27230406.03 -27230405.95 0.2744 0.1863

Mercury -79263-09-21 05:01 J -27229124.44 -27229124.29 -27229124.14 0.2590 0.0804

Mercury -79253-03-21 05:30 J -27225655.37 -27225655.27 -27225655.16 0.2745 0.0595

Mercury -79240-03-23 23:59 J -27220904.61 -27220904.50 -27220904.40 0.2746 0.0704

Mercury -79230-09-19 05:44 J -27217073.41 -27217073.26 -27217073.11 0.2591 0.0955

Mercury -79227-03-26 18:28 J -27216153.81 -27216153.73 -27216153.66 0.2746 0.2006

Mercury -79220-03-19 16:18 J -27213603.91 -27213603.82 -27213603.74 0.2744 0.1603

Mercury -79217-09-21 11:30 J -27212322.16 -27212322.02 -27212321.88 0.2590 0.1238

Venus -79207-02-28 05:44 J -27208875.39 -27208875.26 -27208875.13 0.2732 0.1474

Mercury -79207-03-22 10:32 J -27208853.17 -27208853.06 -27208852.95 0.2745 0.0327

Mercury -79194-03-25 04:47 J -27204102.40 -27204102.30 -27204102.20 0.2746 0.0968

Mercury -79187-03-18 02:52 J -27201552.41 -27201552.38 -27201552.35 0.2743 0.2597

Mercury -79184-09-19 12:13 J -27200271.14 -27200270.99 -27200270.84 0.2591 0.0513

Mercury -79181-03-26 23:16 J -27199351.59 -27199351.53 -27199351.47 0.2746 0.2278

Mercury -79174-03-20 21:06 J -27196801.72 -27196801.62 -27196801.53 0.2744 0.1341

Mercury -79171-09-22 17:59 J -27195519.87 -27195519.75 -27195519.63 0.2590 0.1676

Mercury -79161-03-22 15:20 J -27192050.97 -27192050.86 -27192050.75 0.2745 0.0062

Mercury -79151-09-17 12:42 J -27188220.04 -27188219.97 -27188219.90 0.2592 0.2293

Mercury -79148-03-25 09:49 J -27187300.19 -27187300.09 -27187300.00 0.2746 0.1239

Mercury -79141-03-18 07:40 J -27184750.23 -27184750.18 -27184750.12 0.2743 0.2341

Mercury -79138-09-20 18:42 J -27183468.88 -27183468.72 -27183468.56 0.2591 0.0066

Mercury -79135-03-28 04:04 J -27182549.36 -27182549.33 -27182549.29 0.2746 0.2548

Mercury -79128-03-21 01:54 J -27179999.52 -27179999.42 -27179999.32 0.2744 0.1075

Mercury -79125-09-23 00:13 J -27178717.58 -27178717.49 -27178717.40 0.2590 0.2106

Mercury -79115-03-23 20:08 J -27175248.77 -27175248.66 -27175248.55 0.2745 0.0223

Mercury -79105-09-17 19:25 J -27171417.81 -27171417.69 -27171417.58 0.2592 0.1839

Mercury -79102-03-26 14:37 J -27170497.98 -27170497.89 -27170497.80 0.2746 0.1499

Mercury -79095-03-19 12:42 J -27167948.04 -27167947.97 -27167947.90 0.2743 0.2082

Mercury -79092-09-21 01:11 J -27166666.60 -27166666.45 -27166666.29 0.2591 0.0384

Mercury -79082-03-22 06:42 J -27163197.32 -27163197.22 -27163197.11 0.2744 0.0822

Mercury -79079-09-24 06:42 J -27161915.24 -27161915.22 -27161915.19 0.2590 0.2547

Mercury -79069-03-24 01:11 J -27158446.56 -27158446.45 -27158446.34 0.2745 0.0476

Venus -79062-08-26 12:42 J -27155735.08 -27155734.97 -27155734.85 0.2604 0.1848

Mercury -79059-09-19 01:54 J -27154615.55 -27154615.42 -27154615.29 0.2592 0.1390

Mercury -79056-03-26 19:25 J -27153695.77 -27153695.69 -27153695.60 0.2746 0.1771

Venus -79054-08-24 02:52 J -27152815.44 -27152815.38 -27152815.32 0.2606 0.2428

Mercury -79049-03-19 17:30 J -27151145.85 -27151145.77 -27151145.69 0.2744 0.1821

Mercury -79046-09-22 07:40 J -27149864.33 -27149864.18 -27149864.03 0.2591 0.0824

Mercury -79036-03-22 11:44 J -27146395.12 -27146395.01 -27146394.90 0.2744 0.0553

Mercury -79023-03-25 05:59 J -27141644.36 -27141644.25 -27141644.14 0.2745 0.0733

Mercury -79013-09-19 08:23 J -27137813.30 -27137813.15 -27137813.01 0.2592 0.0944

Mercury -79010-03-28 00:28 J -27136893.56 -27136893.48 -27136893.41 0.2746 0.2040

Mercury -79003-03-20 22:18 J -27134343.66 -27134343.57 -27134343.48 0.2744 0.1559

79TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 79th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-79000-09-22 14:08 J	-27133062.04	-27133061.91	-27133061.77	0.2591	0.1266		
Mercury	-78990-03-23 16:32 J	-27129592.92	-27129592.81	-27129592.70	0.2745	0.0290		
Mercury	-78977-03-25 10:47 J	-27124842.15	-27124842.05	-27124841.94	0.2745	0.1005		
Mercury	-78970-03-19 09:06 J	-27122292.16	-27122292.12	-27122292.09	0.2743	0.2553		
Mercury	-78967-09-20 14:52 J	-27121011.04	-27121010.88	-27121010.73	0.2591	0.0494		
Venus	-78964-02-28 07:40 J	-27120119.31	-27120119.18	-27120119.04	0.2731	0.1283		
Mercury	-78964-03-28 05:16 J	-27120091.34	-27120091.28	-27120091.22	0.2746	0.2304		
Mercury	-78957-03-21 03:06 J	-27117541.46	-27117541.37	-27117541.27	0.2744	0.1300		
Mercury	-78954-09-23 20:37 J	-27116259.76	-27116259.64	-27116259.52	0.2591	0.1700		
Mercury	-78944-03-23 21:20 J	-27112790.71	-27112790.61	-27112790.50	0.2745	0.0111		
Mercury	-78934-09-18 15:06 J	-27108959.94	-27108959.87	-27108959.79	0.2592	0.2291		
Mercury	-78931-03-26 15:49 J	-27108039.94	-27108039.84	-27108039.75	0.2745	0.1268		
Mercury	-78924-03-19 13:54 J	-27105489.98	-27105489.92	-27105489.86	0.2743	0.2295		
Mercury	-78921-09-20 21:20 J	-27104208.77	-27104208.61	-27104208.45	0.2592	0.0046		
Mercury	-78918-03-29 10:04 J	-27103289.11	-27103289.08	-27103289.04	0.2746	0.2577		
Mercury	-78911-03-22 08:08 J	-27100739.26	-27100739.16	-27100739.06	0.2744	0.1038		
Mercury	-78908-09-24 03:06 J	-27099457.46	-27099457.37	-27099457.28	0.2591	0.2141		
Mercury	-78898-03-25 02:23 J	-27095988.51	-27095988.40	-27095988.29	0.2745	0.0250		
Mercury	-78888-09-18 21:49 J	-27092157.70	-27092157.59	-27092157.48	0.2592	0.1838		
Mercury	-78885-03-26 20:37 J	-27091237.73	-27091237.64	-27091237.55	0.2745	0.1540		

Mercury -78878-03-20 18:42 J -27088687.79 -27088687.72 -27088687.65 0.2743 0.2039

Mercury -78875-09-22 03:49 J -27087406.50 -27087406.34 -27087406.18 0.2591 0.0394

Mercury -78865-03-22 12:56 J -27083937.06 -27083936.96 -27083936.86 0.2744 0.0775

Mercury -78862-09-25 09:35 J -27082655.11 -27082655.10 -27082655.09 0.2591 0.2576

Mercury -78852-03-25 07:11 J -27079186.31 -27079186.20 -27079186.09 0.2745 0.0508

Mercury -78842-09-20 04:18 J -27075355.45 -27075355.32 -27075355.19 0.2592 0.1388

Mercury -78839-03-28 01:40 J -27074435.52 -27074435.43 -27074435.35 0.2745 0.1806

Mercury -78832-03-20 23:30 J -27071885.60 -27071885.52 -27071885.43 0.2743 0.1781

Mercury -78829-09-22 10:18 J -27070604.22 -27070604.07 -27070603.92 0.2591 0.0839

Mercury -78819-03-23 17:44 J -27067134.87 -27067134.76 -27067134.65 0.2744 0.0515

Venus -78819-08-26 12:13 J -27066979.11 -27066978.99 -27066978.87 0.2606 0.1731

Venus -78811-08-24 02:08 J -27064059.44 -27064059.41 -27064059.38 0.2608 0.2561

Mercury -78806-03-26 11:59 J -27062384.10 -27062384.00 -27062383.89 0.2745 0.0775

Mercury -78796-09-20 10:47 J -27058553.19 -27058553.05 -27058552.90 0.2592 0.0932

Mercury -78793-03-28 06:28 J -27057633.30 -27057633.23 -27057633.16 0.2745 0.2071

Mercury -78786-03-22 04:32 J -27055083.40 -27055083.31 -27055083.22 0.2743 0.1520

Mercury -78783-09-23 16:47 J -27053801.94 -27053801.80 -27053801.66 0.2591 0.1281

Mercury -78773-03-23 22:47 J -27050332.66 -27050332.55 -27050332.45 0.2744 0.0272

Mercury -78760-03-26 17:01 J -27045581.89 -27045581.79 -27045581.69 0.2745 0.1038

Mercury -78753-03-19 15:06 J -27043031.91 -27043031.87 -27043031.82 0.2742 0.2514

Mercury -78750-09-21 17:30 J -27041750.93 -27041750.77 -27041750.62 0.2592 0.0478

Mercury -78747-03-29 11:16 J -27040831.08 -27040831.03 -27040830.97 0.2745 0.2338

Mercury -78740-03-22 09:20 J -27038281.21 -27038281.11 -27038281.01 0.2743 0.1257

Mercury -78737-09-23 23:16 J -27036999.64 -27036999.53 -27036999.41 0.2591 0.1730

Mercury -78727-03-25 03:35 J -27033530.46 -27033530.35 -27033530.24 0.2744 0.0056

Venus -78721-02-29 10:04 J -27031363.22 -27031363.08 -27031362.94 0.2729 0.1152

Mercury -78717-09-18 17:44 J -27029699.83 -27029699.76 -27029699.69 0.2593 0.2281

Mercury -78714-03-27 21:49 J -27028779.68 -27028779.59 -27028779.49 0.2745 0.1305

Mercury -78707-03-20 20:08 J -27026229.72 -27026229.66 -27026229.60 0.2742 0.2253

Mercury -78704-09-21 23:59 J -27024948.66 -27024948.50 -27024948.34 0.2592 0.0052

Mercury -78701-03-29 16:18 J -27024028.85 -27024028.82 -27024028.79 0.2745 0.2607

Mercury -78694-03-23 14:08 J -27021479.01 -27021478.91 -27021478.81 0.2743 0.0997

Mercury -78691-09-25 05:44 J -27020197.34 -27020197.26 -27020197.17 0.2591 0.2168

Mercury -78681-03-25 08:23 J -27016728.26 -27016728.15 -27016728.04 0.2744 0.0283

Mercury -78671-09-20 00:13 J -27012897.60 -27012897.49 -27012897.38 0.2593 0.1834

Mercury -78668-03-28 02:37 J -27011977.47 -27011977.39 -27011977.30 0.2745 0.1571

Mercury -78661-03-21 00:56 J -27009427.53 -27009427.46 -27009427.39 0.2742 0.1993

Mercury -78658-09-23 06:28 J -27008146.39 -27008146.23 -27008146.08 0.2592 0.0416

Mercury -78648-03-23 18:56 J -27004676.81 -27004676.71 -27004676.60 0.2743 0.0742

Mercury -78635-03-26 13:11 J -26999926.05 -26999925.95 -26999925.84 0.2744 0.0555

Mercury -78625-09-20 06:56 J -26996095.35 -26996095.21 -26996095.08 0.2593 0.1374

Mercury -78622-03-29 07:40 J -26995175.26 -26995175.18 -26995175.10 0.2745 0.1837

Mercury -78615-03-22 05:44 J -26992625.34 -26992625.26 -26992625.18 0.2742 0.1733

Mercury -78612-09-23 12:56 J -26991344.11 -26991343.96 -26991343.81 0.2592 0.0857

Mercury -78602-03-24 23:59 J -26987874.61 -26987874.50 -26987874.39 0.2743 0.0472

Mercury -78589-03-26 18:13 J -26983123.85 -26983123.74 -26983123.64 0.2744 0.0810

Mercury -78582-03-20 16:32 J -26980573.82 -26980573.81 -26980573.80 0.2741 0.2723

Mercury -78579-09-21 13:25 J -26979293.09 -26979292.94 -26979292.79 0.2593 0.0924

Mercury -78576-03-29 12:28 J -26978373.05 -26978372.98 -26978372.91 0.2745 0.2103

Venus -78576-08-26 11:30 J -26978223.14 -26978223.02 -26978222.89 0.2608 0.1610

Mercury -78569-03-22 10:32 J -26975823.15 -26975823.06 -26975822.97 0.2742 0.1477

Mercury -78566-09-24 19:25 J -26974541.83 -26974541.69 -26974541.55 0.2592 0.1305

Mercury -78556-03-25 04:47 J -26971072.41 -26971072.30 -26971072.19 0.2743 0.0209

Mercury -78543-03-27 23:01 J -26966321.64 -26966321.54 -26966321.44 0.2744 0.1076

Mercury -78536-03-20 21:20 J -26963771.65 -26963771.61 -26963771.56 0.2741 0.2466

Mercury -78533-09-21 19:54 J -26962490.83 -26962490.67 -26962490.51 0.2593 0.0476

Mercury -78530-03-30 17:30 J -26961570.83 -26961570.77 -26961570.72 0.2745 0.2374

Mercury -78523-03-23 15:35 J -26959020.95 -26959020.85 -26959020.76 0.2742 0.1219

Mercury -78520-09-25 01:54 J -26957739.54 -26957739.42 -26957739.31 0.2592 0.1741

Mercury -78510-03-26 09:35 J -26954270.20 -26954270.10 -26954269.99 0.2743 0.0122

Mercury -78500-09-19 20:08 J -26950439.73 -26950439.66 -26950439.59 0.2594 0.2284

Mercury -78497-03-28 04:04 J -26949519.43 -26949519.33 -26949519.24 0.2744 0.1343

Mercury -78490-03-22 02:08 J -26946969.47 -26946969.41 -26946969.34 0.2741 0.2212

Mercury -78487-09-23 02:23 J -26945688.56 -26945688.40 -26945688.24 0.2593 0.0029

Mercury -78484-03-30 22:18 J -26944768.60 -26944768.57 -26944768.54 0.2745 0.2636

Venus -78478-03-01 12:13 J -26942607.13 -26942606.99 -26942606.85 0.2727 0.1000

Mercury -78477-03-23 20:23 J -26942218.75 -26942218.65 -26942218.55 0.2742 0.0956

Mercury -78474-09-26 08:23 J -26940937.23 -26940937.15 -26940937.07 0.2592 0.2184

Mercury -78464-03-26 14:37 J -26937468.00 -26937467.89 -26937467.78 0.2743 0.0328

Mercury -78454-09-21 02:52 J -26933637.50 -26933637.38 -26933637.27 0.2594 0.1819

Mercury -78451-03-29 08:52 J -26932717.22 -26932717.13 -26932717.04 0.2744 0.1604

Mercury -78444-03-22 07:11 J -26930167.28 -26930167.20 -26930167.13 0.2742 0.1952

Mercury -78441-09-23 09:06 J -26928886.28 -26928886.12 -26928885.97 0.2593 0.0435

Mercury -78431-03-25 01:11 J -26925416.55 -26925416.45 -26925416.34 0.2742 0.0694

Mercury -78418-03-27 19:25 J -26920665.80 -26920665.69 -26920665.58 0.2743 0.0580

Mercury -78408-09-21 09:20 J -26916835.25 -26916835.11 -26916834.98 0.2593 0.1370

Mercury -78405-03-29 13:40 J -26915915.01 -26915914.93 -26915914.85 0.2744 0.1868

Mercury -78398-03-23 11:59 J -26913365.09 -26913365.00 -26913364.92 0.2742 0.1691

Mercury -78395-09-24 15:35 J -26912084.00 -26912083.85 -26912083.70 0.2593 0.0880

Mercury -78385-03-25 05:59 J -26908614.35 -26908614.25 -26908614.14 0.2743 0.0442

Mercury -78372-03-28 00:13 J -26903863.59 -26903863.49 -26903863.38 0.2743 0.0846

Mercury -78365-03-20 22:47 J -26901313.57 -26901313.55 -26901313.53 0.2741 0.2680

Mercury -78362-09-22 15:49 J -26900032.99 -26900032.84 -26900032.69 0.2593 0.0916

Mercury -78359-03-30 18:28 J -26899112.79 -26899112.73 -26899112.66 0.2744 0.2137

Mercury -78352-03-23 16:47 J -26896562.89 -26896562.80 -26896562.71 0.2742 0.1430

Mercury -78349-09-24 22:04 J -26895281.72 -26895281.58 -26895281.45 0.2592 0.1318

Mercury -78339-03-26 11:01 J -26891812.15 -26891812.04 -26891811.93 0.2743 0.0178

Venus -78333-08-26 11:01 J -26889467.18 -26889467.04 -26889466.91 0.2609 0.1490

Mercury -78326-03-29 05:16 J -26887061.38 -26887061.28 -26887061.18 0.2744 0.1113

Mercury -78319-03-22 03:35 J -26884511.40 -26884511.35 -26884511.30 0.2741 0.2421

Mercury -78316-09-22 22:18 J -26883230.72 -26883230.57 -26883230.41 0.2593 0.0470

Mercury -78313-03-30 23:30 J -26882310.57 -26882310.52 -26882310.47 0.2744 0.2399

Mercury -78306-03-24 21:35 J -26879760.69 -26879760.60 -26879760.50 0.2742 0.1176

Mercury -78303-09-26 04:32 J -26878479.43 -26878479.31 -26878479.20 0.2592 0.1765

Mercury -78293-03-26 15:49 J -26875009.95 -26875009.84 -26875009.73 0.2743 0.0096

Mercury -78283-09-20 22:32 J -26871179.63 -26871179.56 -26871179.49 0.2594 0.2283

Mercury -78280-03-29 10:04 J -26870259.17 -26870259.08 -26870258.99 0.2744 0.1373

Mercury -78273-03-22 08:23 J -26867709.21 -26867709.15 -26867709.08 0.2741 0.2164

Mercury -78270-09-24 05:01 J -26866428.45 -26866428.29 -26866428.13 0.2593 0.0066

Mercury -78267-04-01 04:18 J -26865508.34 -26865508.32 -26865508.29 0.2744 0.2670

Mercury -78260-03-25 02:37 J -26862958.50 -26862958.39 -26862958.29 0.2742 0.0916

Mercury -78257-09-26 11:01 J -26861677.12 -26861677.04 -26861676.96 0.2592 0.2201

Mercury -78247-03-27 20:37 J -26858207.75 -26858207.64 -26858207.53 0.2743 0.0359

Mercury -78237-09-21 05:01 J -26854377.40 -26854377.29 -26854377.18 0.2594 0.1829

Venus -78235-03-01 14:52 J -26853851.03 -26853850.88 -26853850.74 0.2726 0.0897

Mercury -78234-03-30 14:52 J -26853456.96 -26853456.88 -26853456.79 0.2744 0.1639

Mercury -78227-03-23 13:11 J -26850907.02 -26850906.95 -26850906.87 0.2741 0.1907

Mercury -78224-09-24 11:30 J -26849626.18 -26849626.02 -26849625.86 0.2593 0.0437

Mercury -78214-03-26 07:25 J -26846156.30 -26846156.19 -26846156.09 0.2742 0.0653

Mercury -78201-03-28 01:25 J -26841405.54 -26841405.44 -26841405.33 0.2743 0.0629

Mercury -78191-09-22 11:44 J -26837575.15 -26837575.01 -26837574.88 0.2594 0.1366

Mercury -78188-03-30 19:54 J -26836654.75 -26836654.67 -26836654.60 0.2744 0.1904

Mercury -78181-03-23 17:59 J -26834104.83 -26834104.75 -26834104.66 0.2741 0.1653

Mercury -78178-09-25 17:59 J -26832823.90 -26832823.75 -26832823.60 0.2593 0.0883

Mercury -78168-03-26 12:13 J -26829354.10 -26829353.99 -26829353.88 0.2742 0.0391

Mercury -78155-03-29 06:28 J -26824603.34 -26824603.23 -26824603.13 0.2743 0.0882

Mercury -78148-03-22 05:01 J -26822053.32 -26822053.29 -26822053.27 0.2740 0.2632

Mercury -78145-09-22 18:13 J -26820772.89 -26820772.74 -26820772.59 0.2594 0.0915

Mercury -78142-04-01 00:42 J -26819852.54 -26819852.47 -26819852.41 0.2744 0.2168

Mercury -78135-03-24 23:01 J -26817302.64 -26817302.54 -26817302.45 0.2741 0.1394

Mercury -78132-09-26 00:28 J -26816021.61 -26816021.48 -26816021.34 0.2593 0.1337

Mercury -78122-03-27 17:01 J -26812551.90 -26812551.79 -26812551.68 0.2742 0.0138

Mercury -78109-03-29 11:16 J -26807801.13 -26807801.03 -26807800.93 0.2743 0.1143

Mercury -78102-03-23 09:49 J -26805251.14 -26805251.09 -26805251.04 0.2740 0.2377

Mercury -78099-09-24 00:56 J -26803970.62 -26803970.46 -26803970.31 0.2594 0.0455

Mercury -78096-04-01 05:30 J -26803050.31 -26803050.27 -26803050.22 0.2744 0.2435

Venus -78090-08-27 10:18 J -26800711.21 -26800711.07 -26800710.93 0.2611 0.1351

Mercury -78089-03-25 03:49 J -26800500.44 -26800500.34 -26800500.24 0.2741 0.1129

Mercury -78086-09-27 07:11 J -26799219.32 -26799219.20 -26799219.09 0.2593 0.1781

Mercury -78076-03-27 22:04 J -26795749.69 -26795749.58 -26795749.48 0.2742 0.0175

Mercury -78066-09-22 00:56 J -26791919.54 -26791919.46 -26791919.39 0.2595 0.2287

Mercury -78063-03-30 16:04 J -26790998.92 -26790998.83 -26790998.73 0.2743 0.1407

Mercury -78056-03-23 14:37 J -26788448.96 -26788448.89 -26788448.82 0.2740 0.2117

Mercury -78053-09-24 07:25 J -26787168.35 -26787168.19 -26787168.03 0.2594 0.0004

Mercury -78050-04-02 10:32 J -26786248.08 -26786248.06 -26786248.05 0.2744 0.2699

Mercury -78043-03-26 08:37 J -26783698.24 -26783698.14 -26783698.03 0.2741 0.0873

Mercury -78040-09-27 13:40 J -26782417.01 -26782416.93 -26782416.85 0.2593 0.2230

Mercury -78030-03-29 02:52 J -26778947.49 -26778947.38 -26778947.27 0.2742 0.0397

Mercury -78020-09-22 07:25 J -26775117.30 -26775117.19 -26775117.07 0.2595 0.1828

Mercury -78017-03-30 21:06 J -26774196.71 -26774196.62 -26774196.54 0.2743 0.1673

Mercury -78010-03-24 19:25 J -26771646.77 -26771646.69 -26771646.61 0.2740 0.1865

Mercury -78007-09-25 13:54 J -26770366.07 -26770365.92 -26770365.76 0.2594 0.0448

78TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 78th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-77997-03-26 13:25 J		-26766896.04	-26766895.94	-26766895.83	0.2741	0.0619	
Venus	-77992-03-01 17:01 J		-26765094.93	-26765094.79	-26765094.64	0.2724	0.0769	
Mercury	-77984-03-29 07:40 J		-26762145.28	-26762145.18	-26762145.07	0.2742	0.0657	
Mercury	-77974-09-23 14:08 J		-26758315.05	-26758314.91	-26758314.78	0.2595	0.1375	
Mercury	-77971-04-01 01:54 J		-26757394.49	-26757394.42	-26757394.34	0.2743	0.1938	
Mercury	-77964-03-25 00:13 J		-26754844.57	-26754844.49	-26754844.40	0.2740	0.1609	
Mercury	-77961-09-25 20:23 J		-26753563.79	-26753563.65	-26753563.50	0.2594	0.0899	
Mercury	-77951-03-27 18:28 J		-26750093.84	-26750093.73	-26750093.63	0.2741	0.0365	
Mercury	-77938-03-30 12:28 J		-26745343.08	-26745342.98	-26745342.87	0.2742	0.0922	
Mercury	-77931-03-23 11:01 J		-26742793.07	-26742793.04	-26742793.00	0.2739	0.2590	
Mercury	-77928-09-23 20:37 J		-26741512.79	-26741512.64	-26741512.49	0.2595	0.0912	
Mercury	-77925-04-01 06:42 J		-26740592.28	-26740592.22	-26740592.15	0.2743	0.2205	
Mercury	-77918-03-26 05:01 J		-26738042.38	-26738042.29	-26738042.19	0.2740	0.1352	
Mercury	-77915-09-27 03:06 J		-26736761.51	-26736761.37	-26736761.24	0.2594	0.1345	
Mercury	-77905-03-27 23:16 J		-26733291.64	-26733291.53	-26733291.42	0.2741	0.0092	
Mercury	-77892-03-30 17:30 J		-26728540.87	-26728540.77	-26728540.67	0.2742	0.1179	
Mercury	-77885-03-23 16:04 J		-26725990.89	-26725990.83	-26725990.78	0.2739	0.2337	
Mercury	-77882-09-25 03:20 J		-26724710.52	-26724710.36	-26724710.21	0.2595	0.0457	
Mercury	-77879-04-02 11:44 J		-26723790.06	-26723790.01	-26723789.97	0.2743	0.2465	
Mercury	-77872-03-26 10:04 J		-26721240.18	-26721240.08	-26721239.98	0.2740	0.1094	
Mercury	-77869-09-27 09:35 J		-26719959.21	-26719959.10	-26719958.99	0.2594	0.1794	
Mercury	-77859-03-29 04:04 J		-26716489.44	-26716489.33	-26716489.22	0.2741	0.0172	
Mercury	-77849-09-22 03:20 J		-26712659.44	-26712659.36	-26712659.29	0.2596	0.2289	
Venus	-77847-08-27 09:35 J		-26711955.25	-26711955.10	-26711954.96	0.2613	0.1208	
Mercury	-77846-03-31 22:18 J		-26711738.66	-26711738.57	-26711738.48	0.2742	0.1444	
Mercury	-77839-03-24 20:52 J		-26709188.70	-26709188.63	-26709188.56	0.2739	0.2082	
Mercury	-77836-09-25 09:49 J		-26707908.25	-26707908.09	-26707907.93	0.2594	0.0041	

Mercury -77833-04-02 16:32 J -26706987.82 -26706987.81 -26706987.80 0.2743 0.2727

Mercury -77826-03-27 14:52 J -26704437.98 -26704437.88 -26704437.78 0.2741 0.0834

Mercury -77823-09-28 16:04 J -26703156.91 -26703156.83 -26703156.75 0.2594 0.2238

Mercury -77813-03-29 08:52 J -26699687.23 -26699687.13 -26699687.02 0.2741 0.0442

Mercury -77803-09-23 09:49 J -26695857.20 -26695857.09 -26695856.98 0.2595 0.1830

Mercury -77800-04-01 03:06 J -26694936.45 -26694936.37 -26694936.28 0.2742 0.1706

Mercury -77793-03-25 01:40 J -26692386.51 -26692386.43 -26692386.35 0.2740 0.1819

Mercury -77790-09-26 16:32 J -26691105.97 -26691105.81 -26691105.66 0.2594 0.0459

Mercury -77780-03-27 19:40 J -26687635.78 -26687635.68 -26687635.57 0.2741 0.0576

Mercury -77767-03-30 13:54 J -26682885.03 -26682884.92 -26682884.82 0.2742 0.0694

Mercury -77757-09-23 16:32 J -26679054.95 -26679054.81 -26679054.68 0.2595 0.1368

Mercury -77754-04-02 08:08 J -26678134.24 -26678134.16 -26678134.09 0.2742 0.1971

Venus -77749-03-01 19:40 J -26676338.82 -26676338.68 -26676338.53 0.2722 0.0687

Mercury -77747-03-26 06:28 J -26675584.32 -26675584.23 -26675584.14 0.2740 0.1563

Mercury -77744-09-26 23:01 J -26674303.69 -26674303.54 -26674303.39 0.2594 0.0907

Mercury -77734-03-29 00:28 J -26670833.58 -26670833.48 -26670833.37 0.2741 0.0329

Mercury -77721-03-30 18:42 J -26666082.82 -26666082.72 -26666082.62 0.2742 0.0951

Mercury -77714-03-24 17:16 J -26663532.81 -26663532.78 -26663532.74 0.2738 0.2547

Mercury -77711-09-24 23:01 J -26662252.69 -26662252.54 -26662252.39 0.2595 0.0911

Mercury -77708-04-02 12:56 J -26661332.02 -26661331.96 -26661331.90 0.2743 0.2229

Mercury -77701-03-26 11:16 J -26658782.12 -26658782.03 -26658781.93 0.2740 0.1308

Mercury -77698-09-28 05:30 J -26657501.40 -26657501.27 -26657501.13 0.2594 0.1356

Mercury -77688-03-29 05:30 J -26654031.38 -26654031.27 -26654031.16 0.2741 0.0099

Mercury -77675-03-31 23:30 J -26649280.61 -26649280.52 -26649280.42 0.2742 0.1219

Mercury -77668-03-24 22:04 J -26646730.63 -26646730.58 -26646730.52 0.2739 0.2293

Mercury -77665-09-25 05:44 J -26645450.42 -26645450.26 -26645450.11 0.2595 0.0460

Mercury -77662-04-03 17:44 J -26644529.80 -26644529.76 -26644529.72 0.2743 0.2496

Mercury -77655-03-27 16:04 J -26641979.93 -26641979.83 -26641979.73 0.2740 0.1058

Mercury -77652-09-28 11:59 J -26640699.11 -26640699.00 -26640698.88 0.2594 0.1800

Mercury -77642-03-30 10:18 J -26637229.18 -26637229.07 -26637228.96 0.2741 0.0209

Mercury -77632-09-23 05:30 J -26633399.34 -26633399.27 -26633399.20 0.2596 0.2302

Mercury -77629-04-01 04:32 J -26632478.41 -26632478.31 -26632478.22 0.2742 0.1481

Mercury -77622-03-26 03:06 J -26629928.45 -26629928.37 -26629928.30 0.2739 0.2036

Mercury -77619-09-26 12:13 J -26628648.15 -26628647.99 -26628647.83 0.2595 0.0038

Mercury -77609-03-27 21:06 J -26625177.73 -26625177.62 -26625177.52 0.2740 0.0795

Mercury -77606-09-29 18:42 J -26623896.80 -26623896.72 -26623896.65 0.2594 0.2247

Venus -77604-08-27 08:23 J -26623199.30 -26623199.15 -26623199.00 0.2614 0.1038

Mercury -77596-03-30 15:06 J -26620426.98 -26620426.87 -26620426.76 0.2741 0.0464

Mercury -77586-09-24 12:13 J -26616597.10 -26616596.99 -26616596.88 0.2596 0.1835

Mercury -77583-04-02 09:20 J -26615676.20 -26615676.11 -26615676.03 0.2742 0.1738

Mercury -77576-03-26 07:54 J -26613126.25 -26613126.17 -26613126.09 0.2739 0.1782

Mercury -77573-09-26 18:42 J -26611845.87 -26611845.72 -26611845.56 0.2595 0.0456

Mercury -77563-03-29 01:54 J -26608375.53 -26608375.42 -26608375.31 0.2740 0.0532

Mercury -77550-03-31 19:54 J -26603624.77 -26603624.67 -26603624.56 0.2741 0.0732

Mercury -77540-09-24 18:42 J -26599794.85 -26599794.72 -26599794.58 0.2596 0.1377

Mercury -77537-04-02 14:08 J -26598873.98 -26598873.91 -26598873.84 0.2742 0.1996

Mercury -77530-03-27 12:42 J -26596324.06 -26596323.97 -26596323.88 0.2739 0.1524

Mercury -77527-09-28 01:25 J -26595043.59 -26595043.44 -26595043.29 0.2595 0.0910

Mercury -77517-03-29 06:42 J -26591573.33 -26591573.22 -26591573.11 0.2740 0.0277

Venus -77506-03-02 22:04 J -26587582.73 -26587582.58 -26587582.43 0.2720 0.0563

Mercury -77504-04-01 00:42 J -26586822.57 -26586822.47 -26586822.36 0.2741 0.0993

Mercury -77497-03-24 23:30 J -26584272.56 -26584272.52 -26584272.48 0.2738 0.2502

Mercury -77494-09-26 01:25 J -26582992.59 -26582992.44 -26582992.29 0.2596 0.0916

Mercury -77491-04-03 18:56 J -26582071.77 -26582071.71 -26582071.65 0.2742 0.2265

Mercury -77484-03-27 17:30 J -26579521.86 -26579521.77 -26579521.67 0.2739 0.1268

Mercury -77481-09-28 07:54 J -26578241.30 -26578241.17 -26578241.03 0.2595 0.1359

Mercury -77471-03-30 11:30 J -26574771.13 -26574771.02 -26574770.91 0.2740 0.0077

Mercury -77458-04-02 05:44 J -26570020.36 -26570020.26 -26570020.17 0.2741 0.1247

Mercury -77451-03-26 04:18 J -26567470.38 -26567470.32 -26567470.26 0.2738 0.2247

Mercury -77448-09-26 07:54 J -26566190.33 -26566190.17 -26566190.01 0.2596 0.0464

Mercury -77445-04-03 23:59 J -26565269.54 -26565269.50 -26565269.46 0.2742 0.2524
 Mercury -77438-03-28 22:18 J -26562719.67 -26562719.57 -26562719.47 0.2739 0.1011
 Mercury -77435-09-29 14:37 J -26561439.01 -26561438.89 -26561438.78 0.2595 0.1809
 Mercury -77425-03-30 16:18 J -26557968.92 -26557968.82 -26557968.71 0.2740 0.0267
 Mercury -77415-09-24 07:54 J -26554139.24 -26554139.17 -26554139.10 0.2597 0.2310
 Mercury -77412-04-02 10:32 J -26553218.15 -26553218.06 -26553217.97 0.2741 0.1506
 Mercury -77405-03-26 09:06 J -26550668.19 -26550668.12 -26550668.04 0.2738 0.1996
 Mercury -77402-09-27 14:37 J -26549388.05 -26549387.89 -26549387.73 0.2596 0.0024
 Mercury -77392-03-29 03:06 J -26545917.47 -26545917.37 -26545917.26 0.2739 0.0761
 Mercury -77389-09-29 21:06 J -26544636.70 -26544636.62 -26544636.55 0.2595 0.2253
 Mercury -77379-03-31 21:20 J -26541166.72 -26541166.61 -26541166.51 0.2740 0.0507
 Mercury -77369-09-24 14:23 J -26537337.01 -26537336.90 -26537336.79 0.2597 0.1855
 Mercury -77366-04-03 15:20 J -26536415.94 -26536415.86 -26536415.77 0.2741 0.1770
 Venus -77361-08-27 07:25 J -26534443.34 -26534443.19 -26534443.03 0.2616 0.0867
 Mercury -77359-03-27 14:08 J -26533866.00 -26533865.91 -26533865.83 0.2738 0.1740
 Mercury -77356-09-27 21:06 J -26532585.77 -26532585.62 -26532585.46 0.2596 0.0454
 Mercury -77346-03-30 08:08 J -26529115.27 -26529115.16 -26529115.06 0.2739 0.0503
 Mercury -77333-04-01 02:08 J -26524364.52 -26524364.41 -26524364.31 0.2740 0.0760
 Mercury -77326-03-26 00:56 J -26521814.47 -26521814.46 -26521814.45 0.2737 0.2714
 Mercury -77323-09-25 21:06 J -26520534.76 -26520534.62 -26520534.49 0.2597 0.1392
 Mercury -77320-04-03 20:23 J -26519613.72 -26519613.65 -26519613.58 0.2741 0.2035
 Mercury -77313-03-27 18:56 J -26517063.80 -26517063.71 -26517063.62 0.2738 0.1484
 Mercury -77310-09-29 03:49 J -26515783.49 -26515783.34 -26515783.19 0.2596 0.0902
 Mercury -77300-03-30 12:56 J -26512313.07 -26512312.96 -26512312.85 0.2739 0.0246
 Mercury -77287-04-02 06:56 J -26507562.31 -26507562.21 -26507562.11 0.2740 0.1021
 Mercury -77280-03-26 05:44 J -26505012.30 -26505012.26 -26505012.21 0.2737 0.2459
 Mercury -77277-09-26 03:35 J -26503732.50 -26503732.35 -26503732.20 0.2597 0.0934
 Mercury -77274-04-05 01:11 J -26502811.51 -26502811.45 -26502811.39 0.2741 0.2291
 Mercury -77267-03-28 23:44 J -26500261.61 -26500261.51 -26500261.41 0.2738 0.1228
 Mercury -77264-09-29 10:18 J -26498981.21 -26498981.07 -26498980.93 0.2596 0.1354

Venus -77263-03-03 00:56 J -26498826.61 -26498826.46 -26498826.31 0.2718 0.0497

Mercury -77254-03-31 17:44 J -26495510.87 -26495510.76 -26495510.65 0.2739 0.0022

Mercury -77241-04-02 11:44 J -26490760.10 -26490760.01 -26490759.91 0.2741 0.1282

Mercury -77234-03-27 10:32 J -26488210.12 -26488210.06 -26488210.00 0.2737 0.2207

Mercury -77231-09-27 10:18 J -26486930.23 -26486930.07 -26486929.91 0.2597 0.0464

Mercury -77228-04-05 05:59 J -26486009.28 -26486009.25 -26486009.21 0.2741 0.2554

Mercury -77221-03-29 04:32 J -26483459.41 -26483459.31 -26483459.21 0.2738 0.0973

Mercury -77218-09-30 16:47 J -26482178.91 -26482178.80 -26482178.68 0.2595 0.1810

Mercury -77208-03-31 22:32 J -26478708.67 -26478708.56 -26478708.45 0.2739 0.0280

Mercury -77198-09-25 10:04 J -26474879.15 -26474879.08 -26474879.01 0.2598 0.2330

Mercury -77195-04-03 16:47 J -26473957.89 -26473957.80 -26473957.71 0.2740 0.1542

Mercury -77188-03-27 15:20 J -26471407.93 -26471407.86 -26471407.78 0.2737 0.1954

Mercury -77185-09-27 17:01 J -26470127.95 -26470127.79 -26470127.63 0.2596 0.0070

Mercury -77175-03-30 09:20 J -26466657.21 -26466657.11 -26466657.00 0.2739 0.0718

Mercury -77172-09-30 23:30 J -26465376.59 -26465376.52 -26465376.44 0.2595 0.2265

Mercury -77162-04-02 03:20 J -26461906.46 -26461906.36 -26461906.25 0.2740 0.0541

Mercury -77152-09-25 16:32 J -26458076.92 -26458076.81 -26458076.70 0.2598 0.1865

Mercury -77149-04-03 21:35 J -26457155.68 -26457155.60 -26457155.52 0.2741 0.1799

Mercury -77142-03-28 20:08 J -26454605.74 -26454605.66 -26454605.57 0.2737 0.1701

Mercury -77139-09-28 23:30 J -26453325.68 -26453325.52 -26453325.36 0.2596 0.0446

Mercury -77129-03-30 14:08 J -26449855.01 -26449854.91 -26449854.80 0.2739 0.0468

Venus -77118-08-28 06:13 J -26445687.40 -26445687.24 -26445687.08 0.2618 0.0663

Mercury -77116-04-02 08:23 J -26445104.26 -26445104.15 -26445104.05 0.2740 0.0797

Mercury -77109-03-26 07:11 J -26442554.22 -26442554.20 -26442554.18 0.2736 0.2669

Mercury -77106-09-26 23:16 J -26441274.66 -26441274.53 -26441274.40 0.2597 0.1407

Mercury -77103-04-05 02:23 J -26440353.47 -26440353.40 -26440353.33 0.2741 0.2059

Mercury -77096-03-29 01:11 J -26437803.55 -26437803.45 -26437803.36 0.2737 0.1447

Mercury -77093-09-29 05:59 J -26436523.40 -26436523.25 -26436523.10 0.2596 0.0901

Mercury -77083-03-31 19:11 J -26433052.81 -26433052.70 -26433052.60 0.2739 0.0224

Mercury -77070-04-03 13:11 J -26428302.05 -26428301.95 -26428301.85 0.2740 0.1054

Mercury -77063-03-27 11:59 J -26425752.05 -26425752.00 -26425751.95 0.2736 0.2419

Mercury -77060-09-27 05:59 J -26424472.40 -26424472.25 -26424472.10 0.2597 0.0938

Mercury -77057-04-05 07:11 J -26423551.25 -26423551.20 -26423551.14 0.2741 0.2323

Mercury -77050-03-30 05:59 J -26421001.35 -26421001.25 -26421001.16 0.2738 0.1191

Mercury -77047-09-30 12:42 J -26419721.11 -26419720.97 -26419720.83 0.2596 0.1356

Mercury -77037-03-31 23:59 J -26416250.61 -26416250.50 -26416250.39 0.2739 0.0069

Mercury -77024-04-03 17:59 J -26411499.84 -26411499.75 -26411499.65 0.2740 0.1314

Venus -77020-03-03 03:35 J -26410070.51 -26410070.35 -26410070.20 0.2716 0.0404

Mercury -77017-03-27 16:47 J -26408949.86 -26408949.80 -26408949.73 0.2736 0.2164

Mercury -77014-09-28 12:28 J -26407670.14 -26407669.98 -26407669.82 0.2597 0.0484

Mercury -77011-04-06 12:13 J -26406749.03 -26406748.99 -26406748.96 0.2741 0.2583

Mercury -77004-03-30 10:47 J -26404199.15 -26404199.05 -26404198.95 0.2738 0.0934

Mercury -77001-09-30 19:11 J -26402918.81 -26402918.70 -26402918.58 0.2596 0.1812

77TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 77th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-76991-04-02 04:47 J	-26399448.41	-26399448.30	-26399448.19	0.2739	0.0313		
Mercury	-76981-09-25 12:13 J	-26395619.06	-26395618.99	-26395618.92	0.2599	0.2347		
Mercury	-76978-04-04 22:47 J	-26394697.64	-26394697.55	-26394697.46	0.2740	0.1573		
Mercury	-76971-03-28 21:35 J	-26392147.67	-26392147.60	-26392147.52	0.2737	0.1915		
Mercury	-76968-09-28 19:11 J	-26390867.86	-26390867.70	-26390867.54	0.2597	0.0019		
Mercury	-76958-03-31 15:35 J	-26387396.95	-26387396.85	-26387396.74	0.2738	0.0677		

Mercury -76955-10-02 01:54 J -26386116.50 -26386116.42 -26386116.35 0.2596 0.2253

Mercury -76945-04-02 09:35 J -26382646.20 -26382646.10 -26382645.99 0.2739 0.0572

Mercury -76935-09-26 18:56 J -26378816.82 -26378816.71 -26378816.60 0.2598 0.1879

Mercury -76932-04-05 03:49 J -26377895.42 -26377895.34 -26377895.26 0.2740 0.1834

Mercury -76925-03-29 02:23 J -26375345.48 -26375345.40 -26375345.31 0.2737 0.1661

Mercury -76922-09-30 01:40 J -26374065.58 -26374065.43 -26374065.27 0.2597 0.0440

Mercury -76912-03-31 20:23 J -26370594.76 -26370594.65 -26370594.54 0.2738 0.0428

Mercury -76899-04-03 14:23 J -26365844.00 -26365843.90 -26365843.79 0.2739 0.0830

Mercury -76892-03-27 13:25 J -26363293.97 -26363293.94 -26363293.92 0.2736 0.2629

Mercury -76889-09-27 01:40 J -26362014.57 -26362014.43 -26362014.30 0.2598 0.1411

Mercury -76886-04-06 08:37 J -26361093.21 -26361093.14 -26361093.07 0.2740 0.2091

Mercury -76879-03-30 07:25 J -26358543.29 -26358543.19 -26358543.10 0.2737 0.1409

Mercury -76876-09-30 08:23 J -26357263.30 -26357263.15 -26357263.00 0.2597 0.0902

Venus -76875-08-28 05:16 J -26356931.45 -26356931.28 -26356931.12 0.2620 0.0479

Mercury -76866-04-02 01:11 J -26353792.55 -26353792.45 -26353792.34 0.2738 0.0194

Mercury -76853-04-03 19:25 J -26349041.79 -26349041.69 -26349041.60 0.2739 0.1090

Mercury -76846-03-28 18:13 J -26346491.79 -26346491.74 -26346491.69 0.2736 0.2375

Mercury -76843-09-28 08:08 J -26345212.31 -26345212.16 -26345212.01 0.2598 0.0955

Mercury -76840-04-06 13:25 J -26344290.99 -26344290.94 -26344290.89 0.2740 0.2349

Mercury -76833-03-30 12:13 J -26341741.09 -26341740.99 -26341740.89 0.2737 0.1150

Mercury -76830-10-01 15:06 J -26340461.01 -26340460.87 -26340460.74 0.2597 0.1355

Mercury -76820-04-02 06:13 J -26336990.35 -26336990.24 -26336990.14 0.2738 0.0131

Mercury -76807-04-05 00:13 J -26332239.59 -26332239.49 -26332239.40 0.2739 0.1346

Mercury -76800-03-28 23:01 J -26329689.61 -26329689.54 -26329689.47 0.2736 0.2126

Mercury -76797-09-28 14:52 J -26328410.04 -26328409.88 -26328409.72 0.2598 0.0491

Mercury -76794-04-07 18:13 J -26327488.77 -26327488.74 -26327488.71 0.2740 0.2610

Mercury -76787-03-31 17:01 J -26324938.89 -26324938.79 -26324938.69 0.2737 0.0895

Mercury -76784-10-01 21:35 J -26323658.71 -26323658.60 -26323658.49 0.2597 0.1803

Venus -76777-03-03 06:13 J -26321314.39 -26321314.24 -26321314.09 0.2715 0.0341

Mercury -76774-04-03 11:01 J -26320188.15 -26320188.04 -26320187.93 0.2738 0.0354

Mercury -76764-09-26 14:23 J -26316358.96 -26316358.90 -26316358.84 0.2599 0.2365

Mercury -76761-04-05 05:01 J -26315437.38 -26315437.29 -26315437.20 0.2739 0.1604

Mercury -76754-03-30 03:49 J -26312887.42 -26312887.34 -26312887.26 0.2736 0.1870

Mercury -76751-09-29 21:20 J -26311607.77 -26311607.61 -26311607.45 0.2598 0.0048

Mercury -76741-03-31 21:49 J -26308136.70 -26308136.59 -26308136.48 0.2737 0.0641

Mercury -76738-10-03 04:18 J -26306856.40 -26306856.32 -26306856.25 0.2597 0.2257

Mercury -76728-04-03 15:49 J -26303385.95 -26303385.84 -26303385.73 0.2738 0.0605

Mercury -76718-09-27 21:06 J -26299556.73 -26299556.62 -26299556.51 0.2599 0.1901

Mercury -76715-04-06 09:49 J -26298635.17 -26298635.09 -26298635.01 0.2739 0.1864

Mercury -76708-03-30 08:37 J -26296085.22 -26296085.14 -26296085.05 0.2736 0.1620

Mercury -76705-09-30 04:04 J -26294805.49 -26294805.33 -26294805.17 0.2598 0.0430

Mercury -76695-04-02 02:37 J -26291334.50 -26291334.39 -26291334.28 0.2737 0.0384

Mercury -76682-04-04 20:37 J -26286583.74 -26286583.64 -26286583.54 0.2738 0.0863

Mercury -76675-03-28 19:40 J -26284033.71 -26284033.68 -26284033.65 0.2735 0.2589

Mercury -76672-09-28 03:35 J -26282754.48 -26282754.35 -26282754.21 0.2599 0.1438

Mercury -76669-04-06 14:37 J -26281832.95 -26281832.89 -26281832.82 0.2739 0.2122

Mercury -76662-03-31 13:25 J -26279283.03 -26279282.94 -26279282.84 0.2736 0.1368

Mercury -76659-10-01 10:32 J -26278003.21 -26278003.06 -26278002.90 0.2598 0.0886

Mercury -76649-04-02 07:25 J -26274532.30 -26274532.19 -26274532.08 0.2737 0.0143

Mercury -76636-04-05 01:25 J -26269781.54 -26269781.44 -26269781.34 0.2739 0.1123

Venus -76632-08-28 04:04 J -26268175.50 -26268175.33 -26268175.17 0.2622 0.0267

Mercury -76629-03-29 00:28 J -26267231.53 -26267231.48 -26267231.43 0.2735 0.2337

Mercury -76626-09-29 10:18 J -26265952.22 -26265952.07 -26265951.92 0.2599 0.0970

Mercury -76623-04-07 19:40 J -26265030.73 -26265030.68 -26265030.63 0.2739 0.2380

Mercury -76616-03-31 18:28 J -26262480.83 -26262480.73 -26262480.64 0.2736 0.1120

Mercury -76613-10-01 17:16 J -26261200.91 -26261200.78 -26261200.64 0.2597 0.1343

Mercury -76603-04-03 12:13 J -26257730.09 -26257729.99 -26257729.88 0.2737 0.0153

Mercury -76590-04-06 06:28 J -26252979.33 -26252979.23 -26252979.14 0.2739 0.1380

Mercury -76583-03-30 05:16 J -26250429.35 -26250429.28 -26250429.21 0.2735 0.2081

Mercury -76580-09-29 17:01 J -26249149.95 -26249149.79 -26249149.63 0.2599 0.0507

Mercury -76577-04-08 00:28 J -26248228.51 -26248228.48 -26248228.45 0.2740 0.2638

Mercury -76570-04-01 23:16 J -26245678.64 -26245678.53 -26245678.43 0.2736 0.0859

Mercury -76567-10-02 23:59 J -26244398.62 -26244398.50 -26244398.39 0.2597 0.1798

Mercury -76557-04-03 17:16 J -26240927.89 -26240927.78 -26240927.68 0.2738 0.0394

Mercury -76547-09-27 16:32 J -26237098.87 -26237098.81 -26237098.75 0.2600 0.2386

Mercury -76544-04-06 11:16 J -26236177.12 -26236177.03 -26236176.95 0.2739 0.1635

Mercury -76537-03-30 10:04 J -26233627.16 -26233627.08 -26233627.00 0.2735 0.1830

Venus -76534-03-04 09:06 J -26232558.27 -26232558.12 -26232557.97 0.2713 0.0288

Mercury -76534-09-30 23:44 J -26232347.67 -26232347.51 -26232347.35 0.2598 0.0047

Mercury -76524-04-02 04:04 J -26228876.44 -26228876.33 -26228876.23 0.2736 0.0601

Mercury -76521-10-03 06:28 J -26227596.30 -26227596.23 -26227596.15 0.2597 0.2257

Mercury -76511-04-04 22:04 J -26224125.69 -26224125.58 -26224125.48 0.2738 0.0642

Mercury -76501-09-27 23:16 J -26220296.64 -26220296.53 -26220296.43 0.2600 0.1922

Mercury -76498-04-07 16:04 J -26219374.91 -26219374.83 -26219374.75 0.2739 0.1889

Mercury -76491-03-31 14:52 J -26216824.96 -26216824.88 -26216824.79 0.2735 0.1578

Mercury -76488-10-01 06:13 J -26215545.40 -26215545.24 -26215545.08 0.2598 0.0419

Mercury -76478-04-03 08:52 J -26212074.24 -26212074.13 -26212074.02 0.2736 0.0345

Mercury -76465-04-05 02:52 J -26207323.48 -26207323.38 -26207323.28 0.2738 0.0896

Mercury -76458-03-30 01:54 J -26204773.46 -26204773.42 -26204773.38 0.2734 0.2544

Mercury -76455-09-29 05:44 J -26203494.39 -26203494.26 -26203494.12 0.2600 0.1459

Mercury -76452-04-07 20:52 J -26202572.69 -26202572.63 -26202572.56 0.2739 0.2153

Mercury -76445-03-31 19:40 J -26200022.77 -26200022.68 -26200022.58 0.2735 0.1330

Mercury -76442-10-02 12:56 J -26198743.11 -26198742.96 -26198742.81 0.2598 0.0876

Mercury -76432-04-03 13:40 J -26195272.04 -26195271.93 -26195271.82 0.2737 0.0098

Mercury -76419-04-06 07:40 J -26190521.28 -26190521.18 -26190521.08 0.2738 0.1155

Mercury -76412-03-30 06:42 J -26187971.28 -26187971.22 -26187971.16 0.2734 0.2291

Mercury -76409-09-29 12:28 J -26186692.13 -26186691.98 -26186691.83 0.2599 0.0993

Mercury -76406-04-09 01:40 J -26185770.47 -26185770.43 -26185770.38 0.2739 0.2412

Mercury -76399-04-02 00:42 J -26183220.57 -26183220.47 -26183220.37 0.2735 0.1075

Mercury -76396-10-02 19:25 J -26181940.82 -26181940.69 -26181940.55 0.2598 0.1329

Venus -76389-08-28 02:37 J -26179419.55 -26179419.39 -26179419.22 0.2624 0.0080

Mercury -76386-04-04 18:28 J -26178469.84 -26178469.73 -26178469.62 0.2737 0.0178

Mercury -76373-04-06 12:28 J -26173719.07 -26173718.98 -26173718.88 0.2738 0.1410

Mercury -76366-03-31 11:30 J -26171169.09 -26171169.02 -26171168.95 0.2734 0.2041

Mercury -76363-09-30 19:11 J -26169889.86 -26169889.70 -26169889.54 0.2599 0.0526

Mercury -76360-04-09 06:42 J -26168968.24 -26168968.22 -26168968.20 0.2739 0.2669

Mercury -76353-04-02 05:30 J -26166418.38 -26166418.27 -26166418.17 0.2736 0.0823

Mercury -76350-10-04 02:08 J -26165138.52 -26165138.41 -26165138.29 0.2598 0.1791

Mercury -76340-04-04 23:30 J -26161667.63 -26161667.52 -26161667.42 0.2737 0.0436

Mercury -76330-09-28 18:42 J -26157838.78 -26157838.72 -26157838.66 0.2601 0.2410

Mercury -76327-04-07 17:30 J -26156916.86 -26156916.77 -26156916.69 0.2738 0.1668

Mercury -76320-03-31 16:18 J -26154366.90 -26154366.82 -26154366.74 0.2734 0.1792

Mercury -76317-10-01 01:54 J -26153087.58 -26153087.42 -26153087.26 0.2599 0.0063

Mercury -76307-04-03 10:18 J -26149616.18 -26149616.07 -26149615.97 0.2736 0.0567

Mercury -76304-10-04 08:52 J -26148336.21 -26148336.13 -26148336.05 0.2598 0.2246

Mercury -76294-04-06 04:18 J -26144865.43 -26144865.32 -26144865.22 0.2737 0.0679

Venus -76291-03-04 11:59 J -26143802.15 -26143802.00 -26143801.85 0.2711 0.0232

Mercury -76284-09-29 01:25 J -26141036.55 -26141036.44 -26141036.34 0.2600 0.1942

Mercury -76281-04-07 22:18 J -26140114.65 -26140114.57 -26140114.50 0.2738 0.1926

Mercury -76274-04-01 21:06 J -26137564.71 -26137564.62 -26137564.53 0.2735 0.1541

Mercury -76271-10-02 08:37 J -26136285.30 -26136285.14 -26136284.98 0.2599 0.0406

Mercury -76261-04-03 15:06 J -26132813.98 -26132813.87 -26132813.76 0.2736 0.0314

Mercury -76248-04-06 09:06 J -26128063.22 -26128063.12 -26128063.02 0.2737 0.0930

Mercury -76241-03-30 08:08 J -26125513.20 -26125513.16 -26125513.12 0.2733 0.2500

Mercury -76238-09-30 08:08 J -26124234.30 -26124234.16 -26124234.03 0.2600 0.1476

Mercury -76235-04-09 03:06 J -26123312.43 -26123312.37 -26123312.31 0.2738 0.2179

Mercury -76228-04-02 01:54 J -26120762.51 -26120762.42 -26120762.32 0.2735 0.1289

Mercury -76225-10-02 15:06 J -26119483.02 -26119482.87 -26119482.71 0.2599 0.0864

Mercury -76215-04-04 19:54 J -26116011.78 -26116011.67 -26116011.56 0.2736 0.0066

Mercury -76202-04-07 13:54 J -26111261.02 -26111260.92 -26111260.82 0.2737 0.1182

Mercury -76195-03-31 12:56 J -26108711.02 -26108710.96 -26108710.90 0.2733 0.2251
 Mercury -76192-09-30 14:37 J -26107432.03 -26107431.89 -26107431.74 0.2600 0.1010
 Mercury -76189-04-09 07:54 J -26106510.22 -26106510.17 -26106510.12 0.2738 0.2436
 Mercury -76182-04-03 06:56 J -26103960.31 -26103960.21 -26103960.11 0.2735 0.1037
 Mercury -76179-10-03 21:49 J -26102680.73 -26102680.59 -26102680.45 0.2599 0.1324
 Mercury -76169-04-05 00:42 J -26099209.58 -26099209.47 -26099209.36 0.2736 0.0213
 Mercury -76156-04-07 18:42 J -26094458.81 -26094458.72 -26094458.63 0.2737 0.1443
 Mercury -76149-03-31 17:44 J -26091908.83 -26091908.76 -26091908.69 0.2733 0.2003
 Venus -76146-08-29 01:25 J -26090663.60 -26090663.44 -26090663.27 0.2626 0.0169
 Mercury -76146-10-01 21:20 J -26090629.77 -26090629.61 -26090629.45 0.2600 0.0545
 Mercury -76143-04-10 12:42 J -26089707.98 -26089707.97 -26089707.95 0.2738 0.2694
 Mercury -76136-04-03 11:44 J -26087158.12 -26087158.01 -26087157.91 0.2735 0.0782
 Mercury -76133-10-04 04:32 J -26085878.43 -26085878.31 -26085878.20 0.2599 0.1781
 Mercury -76123-04-06 05:30 J -26082407.37 -26082407.27 -26082407.16 0.2736 0.0464
 Mercury -76113-09-28 20:37 J -26078578.69 -26078578.64 -26078578.58 0.2601 0.2443
 Mercury -76110-04-08 23:30 J -26077656.60 -26077656.52 -26077656.43 0.2737 0.1701
 Mercury -76103-04-01 22:32 J -26075106.64 -26075106.56 -26075106.48 0.2734 0.1752
 Mercury -76100-10-02 04:04 J -26073827.49 -26073827.33 -26073827.17 0.2600 0.0082
 Mercury -76090-04-04 16:32 J -26070355.92 -26070355.81 -26070355.71 0.2735 0.0531
 Mercury -76087-10-05 11:01 J -26069076.12 -26069076.04 -26069075.96 0.2598 0.2235
 Mercury -76077-04-06 10:32 J -26065605.17 -26065605.06 -26065604.96 0.2736 0.0716
 Mercury -76070-03-31 09:35 J -26063055.11 -26063055.10 -26063055.09 0.2732 0.2712
 Mercury -76067-09-30 03:20 J -26061776.46 -26061776.36 -26061776.25 0.2601 0.1971
 Mercury -76064-04-09 04:32 J -26060854.39 -26060854.31 -26060854.24 0.2737 0.1957
 Mercury -76057-04-02 03:20 J -26058304.45 -26058304.36 -26058304.27 0.2734 0.1501
 Mercury -76054-10-03 10:47 J -26057025.21 -26057025.05 -26057024.90 0.2600 0.0386
 Venus -76048-03-04 15:06 J -26055046.03 -26055045.87 -26055045.72 0.2709 0.0218
 Mercury -76044-04-04 21:20 J -26053553.72 -26053553.61 -26053553.50 0.2735 0.0273
 Mercury -76031-04-07 15:20 J -26048802.96 -26048802.86 -26048802.76 0.2736 0.0963
 Mercury -76024-03-31 14:23 J -26046252.94 -26046252.90 -26046252.85 0.2732 0.2463

Mercury -76021-09-30 10:18 J -26044974.21 -26044974.07 -26044973.94 0.2601 0.1495

Mercury -76018-04-10 09:20 J -26044052.17 -26044052.11 -26044052.05 0.2738 0.2210

Mercury -76011-04-03 08:08 J -26041502.25 -26041502.16 -26041502.06 0.2734 0.1253

Mercury -76008-10-03 17:30 J -26040222.93 -26040222.77 -26040222.62 0.2600 0.0848

76TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 76th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-75998-04-06 02:08 J	-26036751.52	-26036751.41	-26036751.30	0.2735	0.0021		
Mercury	-75985-04-07 20:08 J	-26032000.76	-26032000.66	-26032000.56	0.2736	0.1220		
Mercury	-75978-04-01 19:11 J	-26029450.76	-26029450.70	-26029450.64	0.2733	0.2212		
Mercury	-75975-10-01 16:47 J	-26028171.95	-26028171.80	-26028171.65	0.2601	0.1033		
Mercury	-75972-04-10 14:08 J	-26027249.95	-26027249.91	-26027249.87	0.2738	0.2465		
Mercury	-75965-04-03 13:11 J	-26024700.05	-26024699.95	-26024699.85	0.2734	0.1000		
Mercury	-75962-10-04 23:59 J	-26023420.63	-26023420.50	-26023420.36	0.2599	0.1312		
Mercury	-75952-04-06 06:56 J	-26019949.32	-26019949.21	-26019949.10	0.2735	0.0235		
Mercury	-75939-04-09 00:56 J	-26015198.55	-26015198.46	-26015198.37	0.2737	0.1471		
Mercury	-75932-04-01 23:59 J	-26012648.57	-26012648.50	-26012648.42	0.2733	0.1963		
Mercury	-75929-10-01 23:30 J	-26011369.68	-26011369.52	-26011369.36	0.2601	0.0566		
Mercury	-75926-04-11 18:56 J	-26010447.72	-26010447.71	-26010447.70	0.2738	0.2723		
Mercury	-75919-04-04 17:59 J	-26007897.86	-26007897.75	-26007897.65	0.2734	0.0748		
Mercury	-75916-10-05 06:42 J	-26006618.34	-26006618.22	-26006618.10	0.2599	0.1765		
Mercury	-75906-04-07 11:44 J	-26003147.11	-26003147.01	-26003146.90	0.2736	0.0491		

Venus -75903-08-28 23:59 J -26001907.66 -26001907.50 -26001907.33 0.2628 0.0411

Mercury -75896-09-29 22:47 J -25999318.60 -25999318.55 -25999318.50 0.2602 0.2466

Mercury -75893-04-09 05:44 J -25998396.34 -25998396.26 -25998396.17 0.2737 0.1728

Mercury -75886-04-03 04:47 J -25995846.38 -25995846.30 -25995846.21 0.2733 0.1712

Mercury -75883-10-03 06:13 J -25994567.40 -25994567.24 -25994567.08 0.2600 0.0109

Mercury -75873-04-04 22:47 J -25991095.66 -25991095.55 -25991095.45 0.2734 0.0491

Mercury -75870-10-06 13:25 J -25989816.03 -25989815.94 -25989815.86 0.2599 0.2221

Mercury -75860-04-07 16:32 J -25986344.91 -25986344.81 -25986344.70 0.2736 0.0751

Mercury -75853-03-31 15:49 J -25983794.86 -25983794.84 -25983794.82 0.2731 0.2671

Mercury -75850-10-01 05:30 J -25982516.37 -25982516.27 -25982516.17 0.2602 0.1995

Mercury -75847-04-10 10:32 J -25981594.13 -25981594.06 -25981593.98 0.2737 0.1983

Mercury -75840-04-03 09:35 J -25979044.19 -25979044.10 -25979044.00 0.2733 0.1465

Mercury -75837-10-03 12:56 J -25977765.12 -25977764.96 -25977764.80 0.2600 0.0364

Mercury -75827-04-06 03:35 J -25974293.46 -25974293.35 -25974293.24 0.2734 0.0238

Mercury -75814-04-08 21:35 J -25969542.70 -25969542.60 -25969542.50 0.2736 0.1000

Mercury -75807-04-01 20:37 J -25966992.68 -25966992.64 -25966992.59 0.2732 0.2421

Venus -75805-03-04 17:59 J -25966289.90 -25966289.75 -25966289.60 0.2707 0.0180

Mercury -75804-10-01 12:13 J -25965714.12 -25965713.99 -25965713.86 0.2602 0.1534

Mercury -75801-04-10 15:35 J -25964791.91 -25964791.85 -25964791.79 0.2737 0.2241

Mercury -75794-04-04 14:37 J -25962241.99 -25962241.89 -25962241.80 0.2733 0.1213

Mercury -75791-10-04 19:25 J -25960962.84 -25960962.69 -25960962.53 0.2600 0.0827

Mercury -75781-04-06 08:23 J -25957491.26 -25957491.15 -25957491.04 0.2734 0.0028

Mercury -75768-04-09 02:23 J -25952740.50 -25952740.40 -25952740.31 0.2736 0.1250

Mercury -75761-04-02 01:25 J -25950190.50 -25950190.44 -25950190.37 0.2732 0.2175

Mercury -75758-10-02 18:56 J -25948911.86 -25948911.71 -25948911.56 0.2602 0.1063

Mercury -75755-04-11 20:23 J -25947989.69 -25947989.65 -25947989.61 0.2737 0.2494

Mercury -75748-04-04 19:25 J -25945439.80 -25945439.69 -25945439.59 0.2733 0.0963

Mercury -75745-10-05 02:08 J -25944160.55 -25944160.41 -25944160.27 0.2600 0.1282

Mercury -75735-04-07 13:11 J -25940689.06 -25940688.95 -25940688.84 0.2735 0.0270

Mercury -75722-04-10 07:11 J -25935938.29 -25935938.20 -25935938.11 0.2736 0.1501

Mercury -75715-04-03 06:13 J -25933388.31 -25933388.24 -25933388.16 0.2732 0.1924

Mercury -75712-10-03 01:40 J -25932109.59 -25932109.43 -25932109.27 0.2601 0.0598

Mercury -75702-04-06 00:13 J -25928637.60 -25928637.49 -25928637.39 0.2733 0.0711

Mercury -75699-10-06 08:52 J -25927358.25 -25927358.13 -25927358.01 0.2600 0.1740

Mercury -75689-04-07 17:59 J -25923886.85 -25923886.75 -25923886.64 0.2735 0.0523

Mercury -75679-10-01 00:56 J -25920058.50 -25920058.46 -25920058.42 0.2603 0.2497

Mercury -75676-04-10 11:59 J -25919136.08 -25919136.00 -25919135.92 0.2736 0.1755

Mercury -75669-04-03 11:01 J -25916586.12 -25916586.04 -25916585.95 0.2732 0.1678

Mercury -75666-10-04 08:23 J -25915307.31 -25915307.15 -25915306.99 0.2601 0.0122

Venus -75660-08-28 22:47 J -25913151.71 -25913151.55 -25913151.40 0.2630 0.0642

Mercury -75656-04-06 05:01 J -25911835.40 -25911835.29 -25911835.19 0.2734 0.0458

Mercury -75653-10-06 15:35 J -25910555.93 -25910555.85 -25910555.77 0.2600 0.2204

Mercury -75643-04-08 22:47 J -25907084.65 -25907084.55 -25907084.44 0.2735 0.0776

Mercury -75636-04-01 22:04 J -25904534.60 -25904534.58 -25904534.55 0.2731 0.2631

Mercury -75633-10-01 07:40 J -25903256.28 -25903256.18 -25903256.08 0.2603 0.2031

Mercury -75630-04-11 16:47 J -25902333.87 -25902333.80 -25902333.73 0.2736 0.2010

Mercury -75623-04-04 16:04 J -25899783.93 -25899783.83 -25899783.74 0.2732 0.1424

Mercury -75620-10-04 15:06 J -25898505.03 -25898504.87 -25898504.71 0.2601 0.0343

Mercury -75610-04-07 09:49 J -25895033.20 -25895033.09 -25895032.98 0.2734 0.0205

Mercury -75597-04-09 03:49 J -25890282.44 -25890282.34 -25890282.24 0.2735 0.1031

Mercury -75590-04-03 02:52 J -25887732.43 -25887732.38 -25887732.33 0.2731 0.2383

Mercury -75587-10-02 14:08 J -25886454.03 -25886453.91 -25886453.78 0.2603 0.1565

Mercury -75584-04-11 21:35 J -25885531.66 -25885531.60 -25885531.54 0.2736 0.2264

Mercury -75577-04-04 20:52 J -25882981.73 -25882981.63 -25882981.54 0.2732 0.1175

Mercury -75574-10-05 21:35 J -25881702.75 -25881702.60 -25881702.44 0.2601 0.0804

Mercury -75564-04-07 14:37 J -25878231.00 -25878230.89 -25878230.78 0.2734 0.0049

Venus -75562-03-05 21:06 J -25877533.78 -25877533.62 -25877533.47 0.2705 0.0172

Mercury -75551-04-10 08:37 J -25873480.24 -25873480.14 -25873480.05 0.2735 0.1280

Mercury -75544-04-03 07:40 J -25870930.24 -25870930.18 -25870930.11 0.2731 0.2135

Mercury -75541-10-02 20:52 J -25869651.77 -25869651.63 -25869651.48 0.2602 0.1096

Mercury -75538-04-13 02:37 J -25868729.43 -25868729.39 -25868729.35 0.2736 0.2521

Mercury -75531-04-06 01:40 J -25866179.53 -25866179.43 -25866179.33 0.2732 0.0922

Mercury -75528-10-06 04:18 J -25864900.46 -25864900.32 -25864900.18 0.2601 0.1256

Mercury -75518-04-08 19:25 J -25861428.80 -25861428.69 -25861428.58 0.2734 0.0301

Mercury -75505-04-10 13:25 J -25856678.03 -25856677.94 -25856677.85 0.2735 0.1533

Mercury -75498-04-04 12:42 J -25854128.05 -25854127.97 -25854127.90 0.2731 0.1886

Mercury -75495-10-04 03:35 J -25852849.50 -25852849.35 -25852849.19 0.2602 0.0628

Mercury -75485-04-06 06:28 J -25849377.34 -25849377.23 -25849377.13 0.2733 0.0674

Mercury -75482-10-07 11:01 J -25848098.16 -25848098.04 -25848097.92 0.2601 0.1723

Mercury -75472-04-09 00:13 J -25844626.59 -25844626.49 -25844626.38 0.2734 0.0555

Mercury -75462-10-02 02:52 J -25840798.41 -25840798.38 -25840798.35 0.2604 0.2539

Mercury -75459-04-11 18:13 J -25839875.82 -25839875.74 -25839875.66 0.2735 0.1785

Mercury -75452-04-04 17:30 J -25837325.86 -25837325.77 -25837325.69 0.2731 0.1638

Mercury -75449-10-04 10:18 J -25836047.23 -25836047.07 -25836046.91 0.2602 0.0166

Mercury -75439-04-07 11:16 J -25832575.14 -25832575.03 -25832574.92 0.2733 0.0422

Mercury -75436-10-07 17:44 J -25831295.85 -25831295.76 -25831295.68 0.2601 0.2181

Mercury -75426-04-10 05:01 J -25827824.39 -25827824.29 -25827824.18 0.2734 0.0807

Mercury -75419-04-03 04:18 J -25825274.35 -25825274.32 -25825274.28 0.2730 0.2593

Venus -75417-08-28 21:06 J -25824395.77 -25824395.62 -25824395.47 0.2632 0.0905

Mercury -75416-10-02 09:35 J -25823996.20 -25823996.10 -25823996.01 0.2604 0.2070

Mercury -75413-04-11 23:01 J -25823073.61 -25823073.54 -25823073.47 0.2735 0.2038

Mercury -75406-04-05 22:18 J -25820523.67 -25820523.57 -25820523.48 0.2731 0.1393

Mercury -75403-10-05 17:01 J -25819244.95 -25819244.79 -25819244.63 0.2602 0.0309

Mercury -75393-04-07 16:04 J -25815772.94 -25815772.83 -25815772.72 0.2733 0.0176

Mercury -75380-04-10 09:49 J -25811022.19 -25811022.09 -25811021.99 0.2734 0.1061

Mercury -75373-04-03 09:20 J -25808472.17 -25808472.11 -25808472.06 0.2730 0.2345

Mercury -75370-10-03 16:18 J -25807193.95 -25807193.82 -25807193.69 0.2603 0.1591

Mercury -75367-04-13 03:49 J -25806271.39 -25806271.34 -25806271.28 0.2735 0.2292

Mercury -75360-04-06 03:06 J -25803721.47 -25803721.37 -25803721.27 0.2732 0.1138

Mercury -75357-10-05 23:44 J -25802442.66 -25802442.51 -25802442.35 0.2602 0.0768

Mercury -75347-04-08 20:52 J -25798970.74 -25798970.63 -25798970.52 0.2733 0.0078

Mercury -75334-04-11 14:52 J -25794219.98 -25794219.88 -25794219.79 0.2734 0.1311

Mercury -75327-04-04 14:08 J -25791669.98 -25791669.91 -25791669.85 0.2730 0.2094

Mercury -75324-10-03 23:01 J -25790391.68 -25790391.54 -25790391.39 0.2603 0.1124

Mercury -75321-04-13 08:37 J -25789469.17 -25789469.14 -25789469.10 0.2736 0.2546

Venus -75319-03-05 23:59 J -25788777.65 -25788777.50 -25788777.35 0.2703 0.0143

Mercury -75314-04-07 07:54 J -25786919.27 -25786919.17 -25786919.07 0.2732 0.0889

Mercury -75311-10-07 06:28 J -25785640.37 -25785640.23 -25785640.09 0.2602 0.1243

Mercury -75301-04-09 01:40 J -25782168.54 -25782168.43 -25782168.32 0.2733 0.0333

Mercury -75288-04-11 19:40 J -25777417.77 -25777417.68 -25777417.59 0.2734 0.1560

Mercury -75281-04-04 18:56 J -25774867.79 -25774867.71 -25774867.64 0.2730 0.1849

Mercury -75278-10-05 05:44 J -25773589.42 -25773589.26 -25773589.10 0.2603 0.0661

Mercury -75268-04-07 12:42 J -25770117.08 -25770116.97 -25770116.87 0.2732 0.0635

Mercury -75265-10-07 13:11 J -25768838.07 -25768837.95 -25768837.83 0.2601 0.1697

Mercury -75255-04-10 06:28 J -25765366.33 -25765366.23 -25765366.12 0.2733 0.0586

Mercury -75245-10-02 04:47 J -25761538.32 -25761538.30 -25761538.28 0.2604 0.2583

Mercury -75242-04-13 00:28 J -25760615.56 -25760615.48 -25760615.40 0.2735 0.1813

Mercury -75235-04-05 23:44 J -25758065.60 -25758065.51 -25758065.43 0.2730 0.1601

Mercury -75232-10-05 12:28 J -25756787.14 -25756786.98 -25756786.82 0.2603 0.0192

Mercury -75222-04-08 17:30 J -25753314.88 -25753314.77 -25753314.66 0.2732 0.0390

Mercury -75219-10-08 19:54 J -25752035.76 -25752035.67 -25752035.58 0.2601 0.2156

Mercury -75209-04-10 11:16 J -25748564.13 -25748564.03 -25748563.92 0.2733 0.0840

Mercury -75202-04-04 10:47 J -25746014.09 -25746014.05 -25746014.02 0.2729 0.2553

Mercury -75199-10-03 11:30 J -25744736.11 -25744736.02 -25744735.92 0.2604 0.2105

Mercury -75196-04-13 05:16 J -25743813.35 -25743813.28 -25743813.21 0.2735 0.2066

Mercury -75189-04-06 04:32 J -25741263.41 -25741263.31 -25741263.22 0.2731 0.1350

Mercury -75186-10-06 19:11 J -25739984.86 -25739984.70 -25739984.54 0.2603 0.0275

Mercury -75176-04-08 22:18 J -25736512.68 -25736512.57 -25736512.46 0.2732 0.0138

Venus -75174-08-29 19:40 J -25735639.83 -25735639.68 -25735639.54 0.2634 0.1174

Mercury -75163-04-11 16:04 J -25731761.92 -25731761.83 -25731761.73 0.2734 0.1089

Mercury -75156-04-04 15:35 J -25729211.91 -25729211.85 -25729211.80 0.2729 0.2306

Mercury -75153-10-03 18:13 J -25727933.86 -25727933.74 -25727933.61 0.2604 0.1636

Mercury -75150-04-14 10:04 J -25727011.13 -25727011.08 -25727011.02 0.2735 0.2319

Mercury -75143-04-07 09:20 J -25724461.21 -25724461.11 -25724461.01 0.2731 0.1102

Mercury -75140-10-07 01:54 J -25723182.58 -25723182.42 -25723182.27 0.2602 0.0741

Mercury -75130-04-10 03:06 J -25719710.48 -25719710.37 -25719710.26 0.2732 0.0115

Mercury -75117-04-11 21:06 J -25714959.72 -25714959.62 -25714959.53 0.2734 0.1341

Mercury -75110-04-05 20:23 J -25712409.72 -25712409.65 -25712409.58 0.2730 0.2062

Mercury -75107-10-05 00:56 J -25711131.60 -25711131.46 -25711131.31 0.2604 0.1164

Mercury -75104-04-14 14:52 J -25710208.91 -25710208.88 -25710208.84 0.2735 0.2569

Mercury -75097-04-07 14:08 J -25707659.01 -25707658.91 -25707658.81 0.2731 0.0854

Mercury -75094-10-08 08:37 J -25706380.29 -25706380.14 -25706380.00 0.2602 0.1202

Mercury -75084-04-10 07:54 J -25702908.28 -25702908.17 -25702908.06 0.2732 0.0367

Venus -75076-03-06 02:52 J -25700021.53 -25700021.38 -25700021.22 0.2701 0.0144

Mercury -75071-04-13 01:54 J -25698157.51 -25698157.42 -25698157.34 0.2734 0.1590

Mercury -75064-04-06 01:11 J -25695607.53 -25695607.45 -25695607.37 0.2730 0.1811

Mercury -75061-10-05 07:40 J -25694329.33 -25694329.18 -25694329.02 0.2604 0.0697

Mercury -75051-04-08 18:56 J -25690856.82 -25690856.71 -25690856.61 0.2731 0.0607

Mercury -75048-10-08 15:20 J -25689577.99 -25689577.86 -25689577.74 0.2602 0.1670

Mercury -75038-04-11 12:42 J -25686106.07 -25686105.97 -25686105.86 0.2733 0.0615

Mercury -75025-04-13 06:42 J -25681355.30 -25681355.22 -25681355.14 0.2734 0.1841

Mercury -75018-04-07 05:59 J -25678805.34 -25678805.25 -25678805.16 0.2730 0.1561

Mercury -75015-10-06 14:23 J -25677527.06 -25677526.90 -25677526.73 0.2604 0.0234

Mercury -75005-04-08 23:44 J -25674054.62 -25674054.51 -25674054.40 0.2731 0.0352

Mercury -75002-10-09 21:49 J -25672775.68 -25672775.59 -25672775.49 0.2602 0.2126

75TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 75th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-74992-04-11 17:30 J	-25669303.87	-25669303.77	-25669303.66	0.2733	0.0867		
Mercury	-74985-04-04 17:01 J	-25666753.83	-25666753.79	-25666753.75	0.2728	0.2513		
Mercury	-74982-10-04 13:25 J	-25665476.03	-25665475.94	-25665475.85	0.2605	0.2145		
Mercury	-74979-04-14 11:30 J	-25664553.09	-25664553.02	-25664552.95	0.2734	0.2089		
Mercury	-74972-04-07 10:47 J	-25662003.14	-25662003.05	-25662002.96	0.2730	0.1312		
Mercury	-74969-10-06 21:06 J	-25660724.78	-25660724.62	-25660724.45	0.2603	0.0251		
Mercury	-74959-04-10 04:32 J	-25657252.42	-25657252.31	-25657252.20	0.2732	0.0107		
Mercury	-74956-10-10 04:32 J	-25655973.32	-25655973.31	-25655973.30	0.2602	0.2592		
Mercury	-74946-04-12 22:32 J	-25652501.66	-25652501.56	-25652501.47	0.2733	0.1123		
Mercury	-74939-04-05 21:49 J	-25649951.65	-25649951.59	-25649951.53	0.2729	0.2268		
Mercury	-74936-10-04 20:08 J	-25648673.78	-25648673.66	-25648673.53	0.2605	0.1677		
Mercury	-74933-04-14 16:18 J	-25647750.87	-25647750.82	-25647750.77	0.2734	0.2341		
Venus	-74931-08-29 17:59 J	-25646883.89	-25646883.75	-25646883.61	0.2636	0.1427		
Mercury	-74926-04-08 15:35 J	-25645200.95	-25645200.85	-25645200.75	0.2730	0.1066		
Mercury	-74923-10-08 03:49 J	-25643922.49	-25643922.34	-25643922.18	0.2603	0.0704		
Mercury	-74913-04-10 09:20 J	-25640450.22	-25640450.11	-25640450.00	0.2732	0.0159		
Mercury	-74900-04-13 03:20 J	-25635699.46	-25635699.36	-25635699.27	0.2733	0.1370		
Mercury	-74893-04-06 02:37 J	-25633149.46	-25633149.39	-25633149.32	0.2729	0.2019		
Mercury	-74890-10-06 02:52 J	-25631871.52	-25631871.38	-25631871.23	0.2605	0.1210		
Mercury	-74887-04-15 21:06 J	-25630948.65	-25630948.62	-25630948.59	0.2734	0.2596		
Mercury	-74880-04-08 20:23 J	-25628398.75	-25628398.65	-25628398.55	0.2730	0.0818		
Mercury	-74877-10-08 10:32 J	-25627120.20	-25627120.06	-25627119.91	0.2603	0.1170		

Mercury -74867-04-11 14:08 J -25623648.01 -25623647.91 -25623647.80 0.2732 0.0399

Mercury -74854-04-14 08:08 J -25618897.25 -25618897.16 -25618897.08 0.2733 0.1620

Mercury -74847-04-07 07:25 J -25616347.27 -25616347.19 -25616347.11 0.2729 0.1772

Mercury -74844-10-06 09:49 J -25615069.25 -25615069.09 -25615068.94 0.2604 0.0739

Mercury -74834-04-10 01:11 J -25611596.55 -25611596.45 -25611596.34 0.2730 0.0567

Venus -74833-03-06 06:13 J -25611265.39 -25611265.24 -25611265.08 0.2699 0.0145

Mercury -74831-10-09 17:16 J -25610317.91 -25610317.78 -25610317.66 0.2603 0.1627

Mercury -74821-04-11 18:56 J -25606845.81 -25606845.71 -25606845.60 0.2732 0.0651

Mercury -74814-04-05 18:28 J -25604295.73 -25604295.73 -25604295.73 0.2727 0.2723

Mercury -74808-04-14 12:56 J -25602095.04 -25602094.96 -25602094.88 0.2733 0.1865

Mercury -74801-04-07 12:13 J -25599545.08 -25599544.99 -25599544.90 0.2729 0.1526

Mercury -74798-10-07 16:32 J -25598266.97 -25598266.81 -25598266.65 0.2604 0.0269

Mercury -74788-04-10 05:59 J -25594794.36 -25594794.25 -25594794.14 0.2731 0.0322

Mercury -74785-10-09 23:59 J -25593515.59 -25593515.50 -25593515.41 0.2603 0.2096

Mercury -74775-04-12 23:44 J -25590043.61 -25590043.51 -25590043.40 0.2732 0.0901

Mercury -74768-04-05 23:16 J -25587493.57 -25587493.53 -25587493.49 0.2728 0.2475

Mercury -74765-10-04 15:35 J -25586215.94 -25586215.85 -25586215.77 0.2606 0.2186

Mercury -74762-04-15 17:44 J -25585292.83 -25585292.76 -25585292.69 0.2733 0.2119

Mercury -74755-04-08 17:01 J -25582742.88 -25582742.79 -25582742.69 0.2729 0.1280

Mercury -74752-10-07 23:16 J -25581464.69 -25581464.53 -25581464.37 0.2604 0.0210

Mercury -74742-04-11 10:47 J -25577992.16 -25577992.05 -25577991.94 0.2731 0.0089

Mercury -74739-10-11 06:42 J -25576713.25 -25576713.22 -25576713.19 0.2603 0.2558

Mercury -74729-04-13 04:32 J -25573241.40 -25573241.31 -25573241.21 0.2732 0.1147

Mercury -74722-04-07 04:04 J -25570691.39 -25570691.33 -25570691.27 0.2728 0.2228

Mercury -74719-10-05 22:18 J -25569413.70 -25569413.57 -25569413.45 0.2606 0.1719

Mercury -74716-04-15 22:32 J -25568490.61 -25568490.56 -25568490.51 0.2734 0.2368

Mercury -74709-04-08 21:49 J -25565940.69 -25565940.59 -25565940.49 0.2729 0.1031

Mercury -74706-10-09 05:59 J -25564662.41 -25564662.25 -25564662.09 0.2604 0.0672

Mercury -74696-04-11 15:35 J -25561189.96 -25561189.85 -25561189.74 0.2731 0.0183

Venus -74688-08-29 16:18 J -25558127.94 -25558127.82 -25558127.69 0.2638 0.1723

Mercury -74683-04-14 09:35 J -25556439.20 -25556439.10 -25556439.01 0.2732 0.1397

Mercury -74676-04-07 08:52 J -25553889.20 -25553889.13 -25553889.06 0.2728 0.1980

Mercury -74673-10-06 05:01 J -25552611.43 -25552611.29 -25552611.15 0.2605 0.1245

Mercury -74670-04-17 03:20 J -25551688.39 -25551688.36 -25551688.33 0.2734 0.2619

Mercury -74663-04-10 02:37 J -25549138.49 -25549138.39 -25549138.28 0.2729 0.0783

Mercury -74660-10-09 12:42 J -25547860.12 -25547859.97 -25547859.83 0.2604 0.1135

Mercury -74650-04-12 20:23 J -25544387.75 -25544387.65 -25544387.54 0.2731 0.0436

Mercury -74637-04-14 14:23 J -25539636.99 -25539636.90 -25539636.82 0.2733 0.1643

Mercury -74630-04-08 13:40 J -25537087.01 -25537086.93 -25537086.84 0.2728 0.1737

Mercury -74627-10-07 11:44 J -25535809.17 -25535809.01 -25535808.86 0.2605 0.0773

Mercury -74617-04-10 07:25 J -25532336.29 -25532336.19 -25532336.08 0.2730 0.0538

Mercury -74614-10-10 19:25 J -25531057.82 -25531057.69 -25531057.56 0.2604 0.1601

Mercury -74604-04-13 01:11 J -25527585.55 -25527585.45 -25527585.34 0.2731 0.0684

Mercury -74597-04-06 00:42 J -25525035.48 -25525035.47 -25525035.45 0.2727 0.2684

Mercury -74591-04-15 19:11 J -25522834.78 -25522834.70 -25522834.62 0.2733 0.1898

Venus -74590-03-07 09:20 J -25522509.27 -25522509.11 -25522508.96 0.2697 0.0142

Mercury -74584-04-08 18:28 J -25520284.82 -25520284.73 -25520284.64 0.2728 0.1490

Mercury -74581-10-07 18:28 J -25519006.89 -25519006.73 -25519006.57 0.2605 0.0309

Mercury -74571-04-11 12:13 J -25515534.09 -25515533.99 -25515533.88 0.2730 0.0298

Mercury -74568-10-11 02:08 J -25514255.51 -25514255.41 -25514255.32 0.2603 0.2065

Mercury -74558-04-14 06:13 J -25510783.35 -25510783.24 -25510783.14 0.2731 0.0932

Mercury -74551-04-07 05:30 J -25508233.31 -25508233.27 -25508233.22 0.2727 0.2437

Mercury -74548-10-05 17:16 J -25506955.86 -25506955.78 -25506955.70 0.2607 0.2240

Mercury -74545-04-15 23:59 J -25506032.57 -25506032.50 -25506032.43 0.2733 0.2145

Mercury -74538-04-09 23:16 J -25503482.62 -25503482.53 -25503482.43 0.2728 0.1245

Mercury -74535-10-09 01:11 J -25502204.61 -25502204.45 -25502204.29 0.2605 0.0161

Mercury -74525-04-11 17:01 J -25498731.89 -25498731.79 -25498731.68 0.2730 0.0086

Mercury -74522-10-12 08:52 J -25497453.17 -25497453.13 -25497453.10 0.2603 0.2523

Mercury -74512-04-14 11:01 J -25493981.14 -25493981.04 -25493980.95 0.2731 0.1176

Mercury -74505-04-07 10:18 J -25491431.13 -25491431.07 -25491431.00 0.2727 0.2194

Mercury -74502-10-07 00:13 J -25490153.61 -25490153.49 -25490153.37 0.2607 0.1760

Mercury -74499-04-17 04:47 J -25489230.35 -25489230.30 -25489230.25 0.2733 0.2396

Mercury -74492-04-10 04:04 J -25486680.43 -25486680.33 -25486680.23 0.2728 0.0999

Mercury -74489-10-09 07:54 J -25485402.33 -25485402.17 -25485402.01 0.2605 0.0628

Mercury -74479-04-12 21:49 J -25481929.69 -25481929.59 -25481929.48 0.2730 0.0229

Mercury -74466-04-15 15:49 J -25477178.93 -25477178.84 -25477178.75 0.2732 0.1424

Mercury -74459-04-08 15:06 J -25474628.94 -25474628.87 -25474628.79 0.2727 0.1950

Mercury -74456-10-07 06:56 J -25473351.35 -25473351.21 -25473351.07 0.2606 0.1283

Mercury -74453-04-17 09:35 J -25472428.12 -25472428.10 -25472428.07 0.2733 0.2642

Venus -74453-09-01 01:54 J -25472291.46 -25472291.42 -25472291.39 0.2637 0.2569

Mercury -74446-04-11 08:52 J -25469878.23 -25469878.13 -25469878.02 0.2729 0.0755

Venus -74445-08-29 14:52 J -25469371.98 -25469371.88 -25469371.77 0.2640 0.1976

Mercury -74443-10-10 14:37 J -25468600.03 -25468599.89 -25468599.74 0.2605 0.1101

Mercury -74433-04-13 02:37 J -25465127.49 -25465127.39 -25465127.28 0.2730 0.0468

Mercury -74420-04-15 20:37 J -25460376.73 -25460376.64 -25460376.56 0.2732 0.1673

Mercury -74413-04-08 19:54 J -25457826.75 -25457826.67 -25457826.58 0.2727 0.1703

Mercury -74410-10-08 13:40 J -25456549.08 -25456548.93 -25456548.77 0.2606 0.0817

Mercury -74400-04-11 13:40 J -25453076.03 -25453075.93 -25453075.82 0.2729 0.0513

Mercury -74397-10-10 21:20 J -25451797.73 -25451797.61 -25451797.48 0.2604 0.1569

Mercury -74387-04-14 07:40 J -25448325.29 -25448325.18 -25448325.08 0.2730 0.0711

Mercury -74380-04-07 07:11 J -25445775.23 -25445775.20 -25445775.18 0.2726 0.2642

Mercury -74374-04-17 01:25 J -25443574.52 -25443574.44 -25443574.37 0.2732 0.1920

Mercury -74367-04-10 00:42 J -25441024.56 -25441024.47 -25441024.37 0.2727 0.1459

Mercury -74364-10-08 20:23 J -25439746.81 -25439746.65 -25439746.49 0.2606 0.0348

Mercury -74354-04-12 18:28 J -25436273.83 -25436273.73 -25436273.62 0.2729 0.0280

Mercury -74351-10-12 04:04 J -25434995.43 -25434995.33 -25434995.23 0.2604 0.2030

Venus -74347-03-07 12:42 J -25433753.12 -25433752.97 -25433752.82 0.2695 0.0183

Mercury -74341-04-14 12:28 J -25431523.08 -25431522.98 -25431522.88 0.2731 0.0957

Mercury -74334-04-08 11:59 J -25428973.05 -25428973.00 -25428972.95 0.2726 0.2401

Mercury -74331-10-06 19:25 J -25427695.77 -25427695.69 -25427695.62 0.2608 0.2277

Mercury -74328-04-17 06:13 J -25426772.30 -25426772.24 -25426772.18 0.2732 0.2170

Mercury -74321-04-10 05:44 J -25424222.36 -25424222.26 -25424222.17 0.2728 0.1211

Mercury -74318-10-10 03:06 J -25422944.53 -25422944.37 -25422944.20 0.2606 0.0134

Mercury -74308-04-12 23:30 J -25419471.63 -25419471.52 -25419471.42 0.2729 0.0096

Mercury -74305-10-12 10:47 J -25418193.09 -25418193.05 -25418193.00 0.2604 0.2487

Mercury -74295-04-15 17:16 J -25414720.88 -25414720.78 -25414720.69 0.2731 0.1205

Mercury -74288-04-08 16:47 J -25412170.87 -25412170.80 -25412170.74 0.2726 0.2154

Mercury -74285-10-07 02:08 J -25410893.53 -25410893.41 -25410893.30 0.2607 0.1807

Mercury -74282-04-18 11:01 J -25409970.09 -25409970.04 -25409969.99 0.2732 0.2419

Mercury -74275-04-11 10:32 J -25407420.16 -25407420.06 -25407419.96 0.2728 0.0967

Mercury -74272-10-10 10:04 J -25406142.24 -25406142.08 -25406141.93 0.2606 0.0597

Mercury -74262-04-14 04:18 J -25402669.43 -25402669.32 -25402669.22 0.2729 0.0256

Mercury -74249-04-15 22:04 J -25397918.67 -25397918.58 -25397918.49 0.2731 0.1453

Mercury -74242-04-09 21:35 J -25395368.68 -25395368.60 -25395368.53 0.2726 0.1913

Mercury -74239-10-08 08:52 J -25394091.27 -25394091.13 -25394090.99 0.2607 0.1338

Mercury -74236-04-18 15:49 J -25393167.86 -25393167.84 -25393167.82 0.2732 0.2671

Mercury -74229-04-11 15:20 J -25390617.97 -25390617.86 -25390617.76 0.2728 0.0721

Mercury -74226-10-11 16:32 J -25389339.96 -25389339.81 -25389339.66 0.2605 0.1053

Mercury -74216-04-14 09:06 J -25385867.23 -25385867.12 -25385867.02 0.2729 0.0491

Venus -74210-09-02 00:13 J -25383535.57 -25383535.49 -25383535.41 0.2640 0.2286

Mercury -74203-04-17 02:52 J -25381116.46 -25381116.38 -25381116.30 0.2731 0.1699

Venus -74202-08-30 13:11 J -25380616.03 -25380615.95 -25380615.87 0.2642 0.2280

Mercury -74196-04-10 02:23 J -25378566.49 -25378566.40 -25378566.32 0.2726 0.1667

Mercury -74193-10-08 15:35 J -25377289.00 -25377288.85 -25377288.70 0.2607 0.0868

Mercury -74183-04-12 20:08 J -25373815.77 -25373815.66 -25373815.56 0.2728 0.0478

Mercury -74180-10-11 23:16 J -25372537.66 -25372537.53 -25372537.39 0.2605 0.1521

Mercury -74170-04-15 13:54 J -25369065.03 -25369064.92 -25369064.82 0.2730 0.0739

Mercury -74163-04-08 13:25 J -25366514.97 -25366514.94 -25366514.91 0.2725 0.2608

Mercury -74157-04-17 07:40 J -25364314.25 -25364314.18 -25364314.11 0.2731 0.1946

Mercury -74150-04-11 07:11 J -25361764.29 -25361764.20 -25361764.11 0.2727 0.1421

Mercury -74147-10-09 22:18 J -25360486.73 -25360486.57 -25360486.40 0.2607 0.0397

Mercury -74137-04-13 00:56 J -25357013.57 -25357013.46 -25357013.36 0.2728 0.0230

Mercury -74134-10-13 05:59 J -25355735.35 -25355735.25 -25355735.14 0.2605 0.1984

Mercury -74124-04-15 18:42 J -25352262.82 -25352262.72 -25352262.62 0.2730 0.0983

Mercury -74117-04-08 18:13 J -25349712.79 -25349712.74 -25349712.69 0.2725 0.2360

Mercury -74114-10-07 21:20 J -25348435.68 -25348435.61 -25348435.54 0.2608 0.2329

Mercury -74111-04-18 12:28 J -25347512.04 -25347511.98 -25347511.92 0.2731 0.2194

Venus -74104-03-07 15:49 J -25344996.99 -25344996.84 -25344996.69 0.2693 0.0187

Mercury -74104-04-11 11:59 J -25344962.10 -25344962.00 -25344961.90 0.2727 0.1174

Mercury -74101-10-10 05:16 J -25343684.45 -25343684.28 -25343684.12 0.2607 0.0093

Mercury -74091-04-14 05:44 J -25340211.37 -25340211.26 -25340211.15 0.2729 0.0055

Mercury -74088-10-13 12:56 J -25338933.01 -25338932.96 -25338932.91 0.2605 0.2455

Mercury -74078-04-16 23:30 J -25335460.62 -25335460.52 -25335460.43 0.2730 0.1231

Mercury -74071-04-09 23:01 J -25332910.61 -25332910.54 -25332910.47 0.2725 0.2119

Mercury -74068-10-08 04:04 J -25331633.44 -25331633.33 -25331633.22 0.2608 0.1855

Mercury -74065-04-18 17:16 J -25330709.82 -25330709.78 -25330709.73 0.2731 0.2442

Mercury -74058-04-12 16:47 J -25328159.90 -25328159.80 -25328159.70 0.2727 0.0926

Mercury -74055-10-11 11:59 J -25326882.16 -25326882.00 -25326881.85 0.2606 0.0547

Mercury -74045-04-14 10:32 J -25323409.17 -25323409.06 -25323408.95 0.2729 0.0274

Mercury -74032-04-17 04:18 J -25318658.41 -25318658.32 -25318658.23 0.2730 0.1476

Mercury -74025-04-10 03:49 J -25316108.42 -25316108.34 -25316108.26 0.2725 0.1872

Mercury -74022-10-09 10:47 J -25314831.19 -25314831.05 -25314830.92 0.2608 0.1391

Mercury -74019-04-19 22:04 J -25313907.59 -25313907.58 -25313907.56 0.2732 0.2690

Mercury -74012-04-12 21:35 J -25311357.71 -25311357.60 -25311357.50 0.2727 0.0683

Mercury -74009-10-11 18:42 J -25310079.87 -25310079.72 -25310079.57 0.2606 0.1014

74TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 74th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-73999-04-15 15:20 J	-25306606.97	-25306606.86	-25306606.76	0.2729	0.0521		
Mercury	-73986-04-18 09:06 J	-25301856.20	-25301856.12	-25301856.04	0.2730	0.1725		
Mercury	-73979-04-11 08:37 J	-25299306.22	-25299306.14	-25299306.05	0.2726	0.1630		
Mercury	-73976-10-09 17:30 J	-25298028.92	-25298028.77	-25298028.62	0.2608	0.0913		
Venus	-73967-09-01 22:32 J	-25294779.66	-25294779.56	-25294779.45	0.2642	0.2009		
Mercury	-73966-04-14 02:23 J	-25294555.51	-25294555.40	-25294555.29	0.2727	0.0435		
Mercury	-73963-10-13 01:25 J	-25293277.58	-25293277.44	-25293277.31	0.2606	0.1473		
Venus	-73959-08-30 11:44 J	-25291860.05	-25291860.01	-25291859.97	0.2644	0.2548		
Mercury	-73953-04-15 20:08 J	-25289804.76	-25289804.66	-25289804.56	0.2729	0.0764		
Mercury	-73946-04-09 19:40 J	-25287254.71	-25287254.68	-25287254.65	0.2724	0.2571		
Mercury	-73940-04-18 13:54 J	-25285053.99	-25285053.92	-25285053.85	0.2730	0.1972		
Mercury	-73933-04-11 13:25 J	-25282504.03	-25282503.94	-25282503.85	0.2726	0.1383		
Mercury	-73930-10-11 00:13 J	-25281226.65	-25281226.49	-25281226.33	0.2608	0.0446		
Mercury	-73920-04-14 07:11 J	-25277753.31	-25277753.20	-25277753.09	0.2728	0.0192		
Mercury	-73917-10-13 08:08 J	-25276475.27	-25276475.16	-25276475.05	0.2606	0.1944		
Mercury	-73907-04-17 00:56 J	-25273002.56	-25273002.46	-25273002.36	0.2729	0.1011		
Mercury	-73900-04-10 00:28 J	-25270452.53	-25270452.48	-25270452.42	0.2724	0.2330		
Mercury	-73897-10-07 23:01 J	-25269175.60	-25269175.54	-25269175.47	0.2609	0.2382		
Mercury	-73894-04-19 18:42 J	-25268251.78	-25268251.72	-25268251.66	0.2730	0.2220		
Mercury	-73887-04-12 18:13 J	-25265701.84	-25265701.74	-25265701.64	0.2726	0.1141		
Mercury	-73884-10-11 06:56 J	-25264424.37	-25264424.21	-25264424.04	0.2607	0.0055		
Mercury	-73874-04-15 11:59 J	-25260951.11	-25260951.00	-25260950.89	0.2728	0.0058		

Mercury -73871-10-14 14:52 J -25259672.94 -25259672.88 -25259672.82 0.2606 0.2403

Venus -73861-03-07 19:11 J -25256240.86 -25256240.70 -25256240.55 0.2691 0.0240

Mercury -73861-04-17 05:44 J -25256200.36 -25256200.26 -25256200.16 0.2729 0.1256

Mercury -73854-04-11 05:16 J -25253650.34 -25253650.28 -25253650.21 0.2725 0.2083

Mercury -73851-10-09 05:44 J -25252373.36 -25252373.26 -25252373.15 0.2609 0.1913

Mercury -73848-04-19 23:30 J -25251449.56 -25251449.52 -25251449.47 0.2731 0.2468

Mercury -73841-04-12 23:01 J -25248899.64 -25248899.54 -25248899.44 0.2726 0.0897

Mercury -73838-10-12 13:54 J -25247622.08 -25247621.92 -25247621.76 0.2607 0.0499

Mercury -73828-04-15 16:47 J -25244148.91 -25244148.80 -25244148.69 0.2728 0.0298

Mercury -73815-04-18 10:32 J -25239398.15 -25239398.06 -25239397.97 0.2729 0.1503

Mercury -73808-04-11 10:04 J -25236848.15 -25236848.08 -25236848.00 0.2725 0.1840

Mercury -73805-10-09 12:42 J -25235571.11 -25235570.97 -25235570.83 0.2609 0.1431

Mercury -73802-04-21 04:18 J -25234647.32 -25234647.32 -25234647.31 0.2731 0.2714

Mercury -73795-04-14 03:49 J -25232097.44 -25232097.34 -25232097.23 0.2726 0.0650

Mercury -73792-10-12 20:37 J -25230819.79 -25230819.64 -25230819.49 0.2607 0.0965

Mercury -73782-04-16 21:35 J -25227346.71 -25227346.60 -25227346.49 0.2728 0.0545

Mercury -73769-04-18 15:20 J -25222595.94 -25222595.86 -25222595.78 0.2729 0.1746

Mercury -73762-04-12 14:52 J -25220045.96 -25220045.88 -25220045.79 0.2725 0.1595

Mercury -73759-10-10 19:25 J -25218768.84 -25218768.69 -25218768.54 0.2609 0.0966

Mercury -73749-04-14 08:37 J -25215295.25 -25215295.14 -25215295.03 0.2727 0.0406

Mercury -73746-10-14 03:20 J -25214017.49 -25214017.36 -25214017.22 0.2607 0.1435

Mercury -73736-04-17 02:23 J -25210544.50 -25210544.40 -25210544.30 0.2728 0.0792

Mercury -73729-04-10 02:08 J -25207994.45 -25207994.41 -25207994.38 0.2723 0.2536

Venus -73724-09-01 20:52 J -25206023.75 -25206023.63 -25206023.51 0.2644 0.1716

Mercury -73723-04-19 20:08 J -25205793.73 -25205793.66 -25205793.59 0.2730 0.1997

Mercury -73716-04-12 19:40 J -25203243.77 -25203243.68 -25203243.58 0.2725 0.1355

Mercury -73713-10-11 02:08 J -25201966.57 -25201966.41 -25201966.25 0.2608 0.0497

Mercury -73703-04-15 13:25 J -25198493.05 -25198492.94 -25198492.83 0.2727 0.0162

Mercury -73700-10-14 10:04 J -25197215.19 -25197215.08 -25197214.97 0.2607 0.1893

Mercury -73690-04-18 07:11 J -25193742.30 -25193742.20 -25193742.10 0.2728 0.1039

Mercury -73683-04-11 06:56 J -25191192.27 -25191192.21 -25191192.16 0.2724 0.2291

Mercury -73680-10-09 00:56 J -25189915.52 -25189915.46 -25189915.41 0.2610 0.2445

Mercury -73677-04-20 00:56 J -25188991.52 -25188991.46 -25188991.40 0.2730 0.2244

Mercury -73670-04-14 00:28 J -25186441.57 -25186441.48 -25186441.38 0.2725 0.1110

Mercury -73667-10-12 08:52 J -25185164.29 -25185164.13 -25185163.96 0.2608 0.0055

Mercury -73657-04-15 18:13 J -25181690.85 -25181690.74 -25181690.63 0.2727 0.0090

Mercury -73654-10-15 16:47 J -25180412.86 -25180412.80 -25180412.73 0.2606 0.2362

Mercury -73644-04-18 11:59 J -25176940.09 -25176940.00 -25176939.90 0.2729 0.1285

Mercury -73637-04-11 11:44 J -25174390.08 -25174390.01 -25174389.94 0.2724 0.2050

Mercury -73634-10-10 07:40 J -25173113.28 -25173113.18 -25173113.07 0.2610 0.1968

Mercury -73631-04-21 05:44 J -25172189.30 -25172189.26 -25172189.22 0.2730 0.2492

Mercury -73624-04-14 05:16 J -25169639.38 -25169639.28 -25169639.17 0.2725 0.0867

Mercury -73621-10-12 15:49 J -25168362.01 -25168361.84 -25168361.68 0.2608 0.0449

Venus -73618-03-08 22:18 J -25167484.72 -25167484.57 -25167484.41 0.2689 0.0263

Mercury -73611-04-16 23:01 J -25164888.64 -25164888.54 -25164888.43 0.2727 0.0336

Mercury -73598-04-19 16:47 J -25160137.89 -25160137.80 -25160137.71 0.2729 0.1528

Mercury -73591-04-12 16:32 J -25157587.89 -25157587.81 -25157587.74 0.2724 0.1811

Mercury -73588-10-10 14:23 J -25156311.03 -25156310.90 -25156310.76 0.2610 0.1497

Mercury -73578-04-15 10:04 J -25152837.18 -25152837.08 -25152836.97 0.2726 0.0625

Mercury -73575-10-13 22:32 J -25151559.71 -25151559.56 -25151559.41 0.2608 0.0911

Mercury -73565-04-17 03:49 J -25148086.44 -25148086.34 -25148086.23 0.2727 0.0576

Mercury -73552-04-19 21:35 J -25143335.68 -25143335.60 -25143335.52 0.2729 0.1777

Mercury -73545-04-12 21:06 J -25140785.70 -25140785.62 -25140785.53 0.2724 0.1571

Mercury -73542-10-11 21:20 J -25139508.76 -25139508.61 -25139508.46 0.2609 0.1020

Mercury -73532-04-15 14:52 J -25136034.98 -25136034.88 -25136034.77 0.2726 0.0385

Mercury -73529-10-14 05:16 J -25134757.42 -25134757.28 -25134757.14 0.2608 0.1376

Mercury -73519-04-18 08:37 J -25131284.24 -25131284.14 -25131284.03 0.2727 0.0821

Mercury -73512-04-11 08:23 J -25128734.19 -25128734.15 -25128734.11 0.2723 0.2498

Mercury -73506-04-21 02:23 J -25126533.47 -25126533.40 -25126533.33 0.2729 0.2019

Mercury -73499-04-14 02:08 J -25123983.51 -25123983.41 -25123983.32 0.2724 0.1323

Mercury -73496-10-12 04:04 J -25122706.49 -25122706.33 -25122706.17 0.2609 0.0551

Mercury -73486-04-16 19:40 J -25119232.78 -25119232.68 -25119232.57 0.2726 0.0163

Mercury -73483-10-15 11:59 J -25117955.11 -25117955.00 -25117954.88 0.2607 0.1847

Venus -73481-09-01 19:11 J -25117267.84 -25117267.70 -25117267.56 0.2646 0.1403

Mercury -73473-04-18 13:25 J -25114482.04 -25114481.94 -25114481.84 0.2728 0.1061

Mercury -73466-04-12 13:11 J -25111932.01 -25111931.95 -25111931.89 0.2723 0.2256

Mercury -73463-10-10 02:52 J -25110655.43 -25110655.38 -25110655.34 0.2611 0.2498

Mercury -73460-04-21 07:11 J -25109731.25 -25109731.20 -25109731.14 0.2729 0.2266

Mercury -73453-04-14 06:56 J -25107181.31 -25107181.21 -25107181.12 0.2725 0.1079

Mercury -73450-10-13 10:47 J -25105904.21 -25105904.05 -25105903.88 0.2609 0.0092

Mercury -73440-04-17 00:28 J -25102430.58 -25102430.48 -25102430.37 0.2726 0.0161

Mercury -73437-10-15 18:42 J -25101152.79 -25101152.72 -25101152.64 0.2607 0.2307

Mercury -73427-04-19 18:13 J -25097679.83 -25097679.74 -25097679.64 0.2728 0.1310

Mercury -73420-04-12 17:59 J -25095129.82 -25095129.75 -25095129.68 0.2723 0.2016

Mercury -73417-10-10 09:35 J -25093853.20 -25093853.10 -25093853.00 0.2611 0.2024

Mercury -73414-04-22 11:59 J -25092929.04 -25092929.00 -25092928.96 0.2729 0.2508

Mercury -73407-04-15 11:44 J -25090379.12 -25090379.01 -25090378.91 0.2725 0.0835

Mercury -73404-10-13 17:44 J -25089101.93 -25089101.76 -25089101.60 0.2609 0.0395

Mercury -73394-04-18 05:16 J -25085628.38 -25085628.28 -25085628.17 0.2726 0.0376

Mercury -73381-04-19 23:01 J -25080877.62 -25080877.54 -25080877.45 0.2728 0.1558

Venus -73375-03-09 01:40 J -25078728.59 -25078728.43 -25078728.28 0.2688 0.0310

Mercury -73374-04-13 22:47 J -25078327.63 -25078327.55 -25078327.47 0.2723 0.1774

Mercury -73371-10-11 16:18 J -25077050.95 -25077050.82 -25077050.69 0.2610 0.1554

Mercury -73361-04-15 16:32 J -25073576.92 -25073576.81 -25073576.71 0.2725 0.0597

Mercury -73358-10-15 00:28 J -25072299.64 -25072299.48 -25072299.33 0.2608 0.0858

Mercury -73348-04-18 10:04 J -25068826.18 -25068826.08 -25068825.97 0.2726 0.0614

Mercury -73341-04-11 09:49 J -25066276.10 -25066276.09 -25066276.08 0.2722 0.2707

Mercury -73335-04-21 03:49 J -25064075.42 -25064075.34 -25064075.26 0.2728 0.1802

Mercury -73328-04-14 03:35 J -25061525.44 -25061525.35 -25061525.26 0.2723 0.1530

Mercury -73325-10-11 23:01 J -25060248.69 -25060248.54 -25060248.39 0.2610 0.1087

Mercury -73315-04-16 21:21 J -25056774.72 -25056774.61 -25056774.51 0.2725 0.0356

Mercury -73312-10-15 07:11 J -25055497.34 -25055497.20 -25055497.06 0.2608 0.1321

Mercury -73302-04-19 14:52 J -25052023.98 -25052023.88 -25052023.77 0.2727 0.0849

Mercury -73295-04-12 14:37 J -25049473.93 -25049473.89 -25049473.85 0.2722 0.2469

Mercury -73289-04-21 08:37 J -25047273.21 -25047273.14 -25047273.07 0.2728 0.2046

Mercury -73282-04-15 08:23 J -25044723.25 -25044723.15 -25044723.06 0.2724 0.1288

Mercury -73279-10-13 05:59 J -25043446.41 -25043446.25 -25043446.09 0.2610 0.0614

Mercury -73269-04-17 02:09 J -25039972.52 -25039972.41 -25039972.31 0.2725 0.0135

Mercury -73266-10-16 13:54 J -25038695.04 -25038694.92 -25038694.80 0.2608 0.1784

Mercury -73256-04-19 19:40 J -25035221.77 -25035221.68 -25035221.58 0.2727 0.1097

Mercury -73249-04-12 19:25 J -25032671.75 -25032671.69 -25032671.63 0.2722 0.2226

Mercury -73246-10-11 04:33 J -25031395.34 -25031395.31 -25031395.28 0.2612 0.2558

Mercury -73243-04-22 13:40 J -25030470.99 -25030470.93 -25030470.88 0.2728 0.2286

Venus -73238-09-02 17:30 J -25028511.92 -25028511.77 -25028511.62 0.2648 0.1115

Mercury -73236-04-15 13:11 J -25027921.05 -25027920.95 -25027920.85 0.2724 0.1047

Mercury -73233-10-13 12:42 J -25026644.13 -25026643.97 -25026643.81 0.2610 0.0138

Mercury -73223-04-18 06:57 J -25023170.32 -25023170.21 -25023170.11 0.2725 0.0169

Mercury -73220-10-16 20:37 J -25021892.72 -25021892.64 -25021892.56 0.2608 0.2253

Mercury -73210-04-21 00:28 J -25018419.57 -25018419.48 -25018419.38 0.2727 0.1338

Mercury -73203-04-14 00:13 J -25015869.56 -25015869.49 -25015869.42 0.2722 0.1984

Mercury -73200-10-11 11:30 J -25014593.12 -25014593.02 -25014592.93 0.2612 0.2084

Mercury -73197-04-22 18:28 J -25013668.77 -25013668.73 -25013668.70 0.2728 0.2534

Mercury -73190-04-16 17:59 J -25011118.85 -25011118.75 -25011118.65 0.2724 0.0803

Mercury -73187-10-14 19:25 J -25009841.85 -25009841.69 -25009841.52 0.2610 0.0336

Mercury -73177-04-18 11:45 J -25006368.12 -25006368.01 -25006367.91 0.2726 0.0391

Mercury -73164-04-21 05:30 J -25001617.36 -25001617.27 -25001617.19 0.2727 0.1579

Mercury -73157-04-14 05:01 J -24999067.37 -24999067.29 -24999067.21 0.2722 0.1739

Mercury -73154-10-12 18:13 J -24997790.87 -24997790.74 -24997790.62 0.2611 0.1617

Mercury -73144-04-16 22:47 J -24994316.66 -24994316.55 -24994316.45 0.2724 0.0559

Mercury -73141-10-15 02:23 J -24993039.56 -24993039.40 -24993039.25 0.2609 0.0803

Venus -73132-03-09 05:01 J -24989972.45 -24989972.29 -24989972.14 0.2686 0.0372

Mercury -73131-04-19 16:33 J -24989565.92 -24989565.81 -24989565.71 0.2726 0.0631

Mercury -73124-04-12 16:18 J -24987015.84 -24987015.82 -24987015.81 0.2721 0.2675

Mercury -73118-04-22 10:18 J -24984815.15 -24984815.07 -24984814.99 0.2727 0.1821

Mercury -73111-04-15 09:49 J -24982265.18 -24982265.09 -24982265.00 0.2723 0.1498

Mercury -73108-10-13 00:57 J -24980988.60 -24980988.46 -24980988.31 0.2611 0.1142

Mercury -73098-04-18 03:35 J -24977514.46 -24977514.35 -24977514.24 0.2724 0.0315

Mercury -73095-10-16 09:06 J -24976237.27 -24976237.12 -24976236.98 0.2609 0.1266

Mercury -73085-04-19 21:21 J -24972763.71 -24972763.61 -24972763.51 0.2726 0.0875

Mercury -73078-04-13 21:06 J -24970213.67 -24970213.62 -24970213.58 0.2721 0.2432

Mercury -73072-04-22 15:06 J -24968012.94 -24968012.87 -24968012.80 0.2728 0.2064

Mercury -73065-04-15 14:37 J -24965462.98 -24965462.89 -24965462.79 0.2723 0.1258

Mercury -73062-10-14 07:40 J -24964186.33 -24964186.18 -24964186.02 0.2611 0.0672

Mercury -73052-04-18 08:23 J -24960712.26 -24960712.15 -24960712.04 0.2724 0.0075

Mercury -73049-10-16 15:49 J -24959434.96 -24959434.84 -24959434.72 0.2609 0.1732

Mercury -73039-04-21 02:09 J -24955961.51 -24955961.41 -24955961.31 0.2726 0.1116

Mercury -73032-04-14 01:54 J -24953411.49 -24953411.42 -24953411.36 0.2721 0.2194

Mercury -73026-04-23 19:54 J -24951210.73 -24951210.67 -24951210.62 0.2728 0.2310

Mercury -73019-04-16 19:25 J -24948660.79 -24948660.69 -24948660.59 0.2723 0.1015

Mercury -73016-10-14 14:37 J -24947384.06 -24947383.89 -24947383.73 0.2611 0.0215

Mercury -73006-04-19 13:11 J -24943910.06 -24943909.95 -24943909.84 0.2725 0.0168

Mercury -73003-10-17 22:33 J -24942632.65 -24942632.56 -24942632.47 0.2609 0.2196

73RD MILLENNIUM BCE

This is a list of transits visible from Earth in the 73rd millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	-72995-09-02 15:35 J	-24939756.00	-24939755.85	-24939755.69	0.2650	0.0793		
Mercury	-72993-04-21 06:57 J	-24939159.30	-24939159.21	-24939159.12	0.2726	0.1357		
Mercury	-72986-04-15 06:42 J	-24936609.30	-24936609.22	-24936609.15	0.2721	0.1951		
Mercury	-72983-10-12 13:11 J	-24935333.04	-24935332.95	-24935332.86	0.2612	0.2156		
Mercury	-72980-04-24 00:42 J	-24934408.51	-24934408.47	-24934408.44	0.2728	0.2552		
Mercury	-72973-04-17 00:13 J	-24931858.59	-24931858.49	-24931858.39	0.2723	0.0774		
Mercury	-72970-10-15 21:21 J	-24930581.78	-24930581.61	-24930581.45	0.2610	0.0268		
Mercury	-72960-04-19 17:59 J	-24927107.86	-24927107.75	-24927107.64	0.2725	0.0410		
Mercury	-72947-04-22 11:45 J	-24922357.10	-24922357.01	-24922356.93	0.2726	0.1599		
Mercury	-72940-04-15 11:30 J	-24919807.11	-24919807.02	-24919806.94	0.2722	0.1712		
Mercury	-72937-10-12 19:54 J	-24918530.79	-24918530.67	-24918530.54	0.2612	0.1676		
Mercury	-72927-04-18 05:01 J	-24915056.39	-24915056.29	-24915056.18	0.2723	0.0532		
Mercury	-72924-10-16 04:04 J	-24913779.48	-24913779.33	-24913779.17	0.2610	0.0738		
Mercury	-72914-04-20 22:47 J	-24910305.65	-24910305.55	-24910305.45	0.2725	0.0653		
Mercury	-72907-04-13 22:33 J	-24907755.58	-24907755.56	-24907755.54	0.2720	0.2637		
Mercury	-72901-04-22 16:33 J	-24905554.89	-24905554.81	-24905554.73	0.2727	0.1844		
Mercury	-72894-04-16 16:18 J	-24903004.91	-24903004.82	-24903004.73	0.2722	0.1469		
Mercury	-72891-10-14 02:52 J	-24901728.53	-24901728.38	-24901728.24	0.2612	0.1201		
Venus	-72889-03-09 08:09 J	-24901216.32	-24901216.16	-24901216.01	0.2684	0.0399		
Mercury	-72881-04-18 09:49 J	-24898254.19	-24898254.09	-24898253.98	0.2723	0.0297		
Mercury	-72878-10-17 11:01 J	-24896977.19	-24896977.04	-24896976.90	0.2610	0.1213		
Mercury	-72868-04-21 03:35 J	-24893503.45	-24893503.35	-24893503.25	0.2725	0.0895		
Mercury	-72861-04-14 03:21 J	-24890953.41	-24890953.36	-24890953.31	0.2720	0.2397		
Mercury	-72855-04-23 21:21 J	-24888752.68	-24888752.61	-24888752.54	0.2727	0.2086		
Mercury	-72848-04-16 21:06 J	-24886202.72	-24886202.62	-24886202.53	0.2722	0.1230		
Mercury	-72845-10-14 09:35 J	-24884926.25	-24884926.10	-24884925.94	0.2612	0.0733		
Mercury	-72835-04-19 14:37 J	-24881452.00	-24881451.89	-24881451.78	0.2724	0.0072		

Mercury -72832-10-17 17:45 J -24880174.89 -24880174.76 -24880174.64 0.2610 0.1675

Mercury -72822-04-22 08:23 J -24876701.25 -24876701.15 -24876701.05 0.2725 0.1137

Mercury -72815-04-15 08:09 J -24874151.22 -24874151.16 -24874151.10 0.2720 0.2156

Mercury -72809-04-24 02:09 J -24871950.47 -24871950.41 -24871950.36 0.2727 0.2328

Mercury -72802-04-18 01:54 J -24869400.52 -24869400.42 -24869400.32 0.2722 0.0988

Mercury -72799-10-15 16:18 J -24868123.98 -24868123.82 -24868123.66 0.2611 0.0268

Mercury -72789-04-19 19:25 J -24864649.79 -24864649.69 -24864649.58 0.2724 0.0205

Mercury -72786-10-19 00:28 J -24863372.57 -24863372.48 -24863372.39 0.2610 0.2140

Mercury -72776-04-22 13:11 J -24859899.04 -24859898.95 -24859898.86 0.2726 0.1381

Mercury -72769-04-15 12:57 J -24857349.04 -24857348.96 -24857348.89 0.2721 0.1918

Mercury -72766-10-13 15:06 J -24856072.96 -24856072.87 -24856072.79 0.2613 0.2214

Mercury -72763-04-25 06:57 J -24855148.24 -24855148.21 -24855148.18 0.2727 0.2570

Mercury -72756-04-18 06:42 J -24852598.33 -24852598.22 -24852598.12 0.2722 0.0750

Mercury -72753-10-15 23:16 J -24851321.70 -24851321.53 -24851321.37 0.2611 0.0213

Venus -72752-09-02 14:09 J -24851000.07 -24850999.91 -24850999.75 0.2652 0.0511

Mercury -72743-04-21 00:13 J -24847847.59 -24847847.49 -24847847.38 0.2724 0.0445

Mercury -72740-10-19 07:11 J -24846570.21 -24846570.20 -24846570.19 0.2609 0.2600

Mercury -72730-04-23 17:59 J -24843096.83 -24843096.75 -24843096.66 0.2726 0.1624

Mercury -72723-04-16 17:45 J -24840546.84 -24840546.76 -24840546.68 0.2721 0.1675

Mercury -72720-10-13 21:49 J -24839270.71 -24839270.59 -24839270.47 0.2613 0.1746

Mercury -72710-04-19 11:30 J -24835796.13 -24835796.02 -24835795.92 0.2722 0.0511

Mercury -72707-10-17 05:59 J -24834519.41 -24834519.25 -24834519.09 0.2611 0.0677

Mercury -72697-04-21 05:01 J -24831045.39 -24831045.29 -24831045.18 0.2724 0.0683

Mercury -72690-04-15 04:47 J -24828495.32 -24828495.30 -24828495.27 0.2719 0.2607

Mercury -72684-04-23 22:47 J -24826294.63 -24826294.55 -24826294.47 0.2726 0.1867

Mercury -72677-04-16 22:33 J -24823744.65 -24823744.56 -24823744.47 0.2721 0.1439

Mercury -72674-10-15 04:33 J -24822468.45 -24822468.31 -24822468.17 0.2613 0.1272

Mercury -72664-04-19 16:18 J -24818993.93 -24818993.82 -24818993.72 0.2723 0.0282

Mercury -72661-10-17 12:42 J -24817717.12 -24817716.97 -24817716.82 0.2611 0.1139

Mercury -72651-04-22 09:49 J -24814243.19 -24814243.09 -24814242.99 0.2724 0.0924

Venus -72646-03-10 11:30 J -24812460.17 -24812460.02 -24812459.87 0.2682 0.0477

Mercury -72644-04-15 09:35 J -24811693.15 -24811693.10 -24811693.05 0.2719 0.2368

Mercury -72638-04-25 03:35 J -24809492.41 -24809492.35 -24809492.28 0.2726 0.2107

Mercury -72631-04-18 03:21 J -24806942.46 -24806942.36 -24806942.26 0.2721 0.1195

Mercury -72628-10-15 11:16 J -24805666.18 -24805666.03 -24805665.87 0.2613 0.0807

Mercury -72618-04-20 21:06 J -24802191.73 -24802191.62 -24802191.52 0.2723 0.0111

Mercury -72615-10-18 19:25 J -24800914.81 -24800914.69 -24800914.56 0.2611 0.1611

Mercury -72605-04-22 14:37 J -24797440.98 -24797440.89 -24797440.79 0.2725 0.1163

Mercury -72598-04-16 14:23 J -24794890.96 -24794890.90 -24794890.83 0.2720 0.2127

Mercury -72592-04-25 08:23 J -24792690.20 -24792690.15 -24792690.10 0.2726 0.2350

Mercury -72585-04-18 08:09 J -24790140.26 -24790140.16 -24790140.06 0.2721 0.0956

Mercury -72582-10-16 18:13 J -24788863.90 -24788863.74 -24788863.58 0.2612 0.0323

Mercury -72572-04-21 01:54 J -24785389.53 -24785389.42 -24785389.32 0.2723 0.0247

Mercury -72569-10-19 02:23 J -24784112.50 -24784112.40 -24784112.30 0.2610 0.2075

Mercury -72559-04-23 19:25 J -24780638.78 -24780638.69 -24780638.60 0.2725 0.1404

Mercury -72552-04-16 19:11 J -24778088.77 -24778088.70 -24778088.62 0.2720 0.1886

Mercury -72549-10-13 16:47 J -24776812.88 -24776812.80 -24776812.72 0.2614 0.2283

Mercury -72546-04-26 13:11 J -24775887.98 -24775887.95 -24775887.92 0.2726 0.2590

Mercury -72539-04-19 12:57 J -24773338.06 -24773337.96 -24773337.86 0.2722 0.0712

Mercury -72536-10-17 00:57 J -24772061.62 -24772061.46 -24772061.29 0.2612 0.0162

Mercury -72526-04-22 06:42 J -24768587.33 -24768587.22 -24768587.12 0.2723 0.0473

Mercury -72523-10-20 09:06 J -24767310.15 -24767310.12 -24767310.09 0.2610 0.2549

Mercury -72513-04-24 00:13 J -24763836.57 -24763836.49 -24763836.40 0.2725 0.1648

Venus -72509-09-02 12:28 J -24762244.15 -24762243.98 -24762243.82 0.2654 0.0190

Mercury -72506-04-17 23:59 J -24761286.58 -24761286.50 -24761286.41 0.2720 0.1649

Mercury -72503-10-14 23:30 J -24760010.63 -24760010.52 -24760010.40 0.2614 0.1810

Mercury -72493-04-19 17:45 J -24756535.87 -24756535.76 -24756535.65 0.2722 0.0473

Mercury -72490-10-18 07:54 J -24755259.33 -24755259.17 -24755259.01 0.2612 0.0612

Mercury -72480-04-22 11:30 J -24751785.13 -24751785.02 -24751784.92 0.2723 0.0713

Mercury -72473-04-15 11:16 J -24749235.06 -24749235.03 -24749235.00 0.2718 0.2573

Mercury -72467-04-25 05:01 J -24747034.36 -24747034.29 -24747034.21 0.2725 0.1890

Mercury -72460-04-18 04:47 J -24744484.39 -24744484.30 -24744484.20 0.2720 0.1407

Mercury -72457-10-15 06:28 J -24743208.37 -24743208.23 -24743208.09 0.2614 0.1343

Mercury -72447-04-20 22:33 J -24739733.67 -24739733.56 -24739733.45 0.2722 0.0232

Mercury -72444-10-18 14:37 J -24738457.04 -24738456.89 -24738456.74 0.2612 0.1078

Mercury -72434-04-23 16:18 J -24734982.92 -24734982.82 -24734982.72 0.2724 0.0950

Mercury -72427-04-16 16:04 J -24732432.88 -24732432.83 -24732432.78 0.2718 0.2333

Mercury -72421-04-25 09:49 J -24730232.15 -24730232.09 -24730232.02 0.2725 0.2134

Mercury -72414-04-19 09:35 J -24727682.19 -24727682.10 -24727682.00 0.2720 0.1168

Mercury -72411-10-16 13:11 J -24726406.10 -24726405.95 -24726405.79 0.2613 0.0865

Venus -72403-03-10 14:52 J -24723704.04 -24723703.88 -24723703.73 0.2680 0.0544

Mercury -72401-04-21 03:21 J -24722931.47 -24722931.36 -24722931.25 0.2722 0.0016

Mercury -72398-10-19 21:21 J -24721654.74 -24721654.61 -24721654.48 0.2611 0.1545

Mercury -72388-04-23 21:06 J -24718180.72 -24718180.62 -24718180.53 0.2724 0.1190

Mercury -72381-04-16 20:52 J -24715630.70 -24715630.63 -24715630.57 0.2719 0.2096

Mercury -72375-04-26 14:37 J -24713429.94 -24713429.89 -24713429.83 0.2725 0.2371

Mercury -72368-04-19 14:23 J -24710880.00 -24710879.90 -24710879.80 0.2720 0.0927

Mercury -72365-10-16 19:54 J -24709603.83 -24709603.67 -24709603.50 0.2613 0.0405

Mercury -72355-04-22 08:09 J -24706129.27 -24706129.16 -24706129.05 0.2722 0.0249

Mercury -72352-10-20 04:04 J -24704852.43 -24704852.33 -24704852.22 0.2611 0.2013

Mercury -72342-04-25 01:54 J -24701378.51 -24701378.42 -24701378.33 0.2724 0.1430

Mercury -72335-04-18 01:40 J -24698828.51 -24698828.43 -24698828.36 0.2719 0.1857

Mercury -72332-10-14 18:42 J -24697552.79 -24697552.72 -24697552.66 0.2615 0.2350

Mercury -72329-04-26 19:25 J -24696627.71 -24696627.69 -24696627.66 0.2726 0.2612

Mercury -72322-04-20 19:11 J -24694077.80 -24694077.70 -24694077.59 0.2721 0.0691

Mercury -72319-10-18 02:52 J -24692801.55 -24692801.38 -24692801.22 0.2613 0.0077

Mercury -72309-04-22 12:57 J -24689327.07 -24689326.96 -24689326.86 0.2722 0.0490

Mercury -72306-10-21 10:47 J -24688050.09 -24688050.05 -24688049.99 0.2611 0.2471

Mercury -72296-04-25 06:42 J -24684576.31 -24684576.22 -24684576.14 0.2724 0.1669

Mercury -72289-04-18 06:28 J -24682026.32 -24682026.23 -24682026.15 0.2719 0.1615

Mercury -72286-10-16 01:25 J -24680750.55 -24680750.44 -24680750.33 0.2615 0.1877

Mercury -72276-04-20 23:59 J -24677275.60 -24677275.50 -24677275.39 0.2721 0.0451

Mercury -72273-10-18 09:35 J -24675999.26 -24675999.10 -24675998.94 0.2613 0.0540

Venus -72266-09-03 11:01 J -24673488.20 -24673488.04 -24673487.88 0.2656 0.0113

Mercury -72263-04-23 17:45 J -24672524.86 -24672524.76 -24672524.66 0.2723 0.0726

Mercury -72256-04-16 17:30 J -24669974.80 -24669974.77 -24669974.73 0.2717 0.2540

Mercury -72250-04-26 11:30 J -24667774.10 -24667774.02 -24667773.95 0.2724 0.1909

Mercury -72243-04-19 11:16 J -24665224.12 -24665224.03 -24665223.94 0.2719 0.1375

Mercury -72240-10-16 08:09 J -24663948.29 -24663948.16 -24663948.02 0.2614 0.1405

Mercury -72230-04-22 04:47 J -24660473.40 -24660473.30 -24660473.19 0.2721 0.0220

Mercury -72227-10-19 16:33 J -24659196.96 -24659196.81 -24659196.66 0.2612 0.1016

Mercury -72217-04-23 22:33 J -24655722.66 -24655722.56 -24655722.46 0.2723 0.0970

Mercury -72210-04-17 22:18 J -24653172.62 -24653172.57 -24653172.51 0.2718 0.2302

Mercury -72204-04-26 16:18 J -24650971.89 -24650971.82 -24650971.76 0.2724 0.2147

Mercury -72197-04-19 16:04 J -24648421.93 -24648421.83 -24648421.74 0.2720 0.1136

Mercury -72194-10-17 15:06 J -24647146.03 -24647145.87 -24647145.72 0.2614 0.0939

Mercury -72184-04-22 09:35 J -24643671.20 -24643671.10 -24643670.99 0.2721 0.0096

Mercury -72181-10-19 23:16 J -24642394.66 -24642394.53 -24642394.40 0.2612 0.1480

Mercury -72171-04-25 03:21 J -24638920.46 -24638920.36 -24638920.26 0.2723 0.1209

Mercury -72164-04-18 03:06 J -24636370.44 -24636370.37 -24636370.30 0.2718 0.2064

Venus -72160-03-10 18:13 J -24634947.90 -24634947.74 -24634947.59 0.2678 0.0616

Mercury -72158-04-27 21:06 J -24634169.67 -24634169.62 -24634169.57 0.2725 0.2390

Mercury -72151-04-20 20:52 J -24631619.73 -24631619.63 -24631619.53 0.2720 0.0900

Mercury -72148-10-17 21:49 J -24630343.75 -24630343.59 -24630343.43 0.2614 0.0467

Mercury -72138-04-23 14:23 J -24626869.00 -24626868.90 -24626868.79 0.2722 0.0285

Mercury -72135-10-21 05:59 J -24625592.36 -24625592.25 -24625592.14 0.2612 0.1941

Mercury -72125-04-25 08:09 J -24622118.25 -24622118.16 -24622118.07 0.2723 0.1451

Mercury -72118-04-19 07:54 J -24619568.25 -24619568.17 -24619568.09 0.2718 0.1823

Mercury -72115-10-15 20:23 J -24618292.71 -24618292.65 -24618292.59 0.2616 0.2424

Mercury -72112-04-28 01:54 J -24617367.45 -24617367.42 -24617367.40 0.2725 0.2629

Mercury -72105-04-21 01:40 J -24614817.54 -24614817.43 -24614817.33 0.2720 0.0659

Mercury -72102-10-19 04:33 J -24613541.47 -24613541.31 -24613541.15 0.2614 0.0019

Mercury -72092-04-23 19:11 J -24610066.80 -24610066.70 -24610066.59 0.2722 0.0516

Mercury -72089-10-21 12:42 J -24608790.03 -24608789.97 -24608789.91 0.2612 0.2409

Mercury -72079-04-26 12:57 J -24605316.04 -24605315.96 -24605315.88 0.2723 0.1687

Mercury -72072-04-19 12:42 J -24602766.06 -24602765.97 -24602765.88 0.2718 0.1586

Mercury -72069-10-16 03:06 J -24601490.47 -24601490.37 -24601490.26 0.2616 0.1955

Mercury -72059-04-22 06:28 J -24598015.34 -24598015.23 -24598015.13 0.2720 0.0425

Mercury -72056-10-19 11:30 J -24596739.18 -24596739.02 -24596738.86 0.2613 0.0474

Mercury -72046-04-24 23:59 J -24593264.60 -24593264.50 -24593264.39 0.2722 0.0756

Mercury -72039-04-17 23:59 J -24590714.54 -24590714.50 -24590714.47 0.2717 0.2512

Mercury -72033-04-26 17:45 J -24588513.84 -24588513.76 -24588513.69 0.2724 0.1927

Mercury -72026-04-20 17:30 J -24585963.86 -24585963.77 -24585963.68 0.2719 0.1349

Venus -72023-09-03 09:06 J -24584732.28 -24584732.12 -24584731.96 0.2658 0.0450

Mercury -72023-10-17 10:04 J -24584688.22 -24584688.08 -24584687.95 0.2615 0.1484

Mercury -72013-04-22 11:16 J -24581213.14 -24581213.03 -24581212.93 0.2720 0.0200

Mercury -72010-10-20 18:13 J -24579936.89 -24579936.74 -24579936.59 0.2613 0.0937

72ND MILLENNIUM BCE

This is a list of transits visible from Earth in the 72nd millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-72000-04-25 04:47 J	-24576462.40	-24576462.30	-24576462.20	0.2722	0.0992		
Mercury	-71993-04-18 04:47 J	-24573912.36	-24573912.30	-24573912.25	0.2717	0.2272		

Mercury -71987-04-27 22:33 J -24571711.62 -24571711.56 -24571711.50 0.2724 0.2168

Mercury -71980-04-20 22:18 J -24569161.67 -24569161.57 -24569161.47 0.2719 0.1110

Mercury -71977-10-17 16:47 J -24567885.95 -24567885.80 -24567885.65 0.2615 0.1008

Mercury -71967-04-23 16:04 J -24564410.94 -24564410.83 -24564410.73 0.2721 0.0109

Mercury -71964-10-21 00:57 J -24563134.59 -24563134.46 -24563134.32 0.2613 0.1408

Mercury -71954-04-26 09:35 J -24559660.19 -24559660.10 -24559660.00 0.2722 0.1231

Mercury -71947-04-19 09:35 J -24557110.17 -24557110.10 -24557110.03 0.2717 0.2031

Mercury -71941-04-28 03:21 J -24554909.41 -24554909.36 -24554909.31 0.2724 0.2405

Mercury -71934-04-22 03:06 J -24552359.47 -24552359.37 -24552359.27 0.2719 0.0869

Mercury -71931-10-18 23:30 J -24551083.68 -24551083.52 -24551083.36 0.2615 0.0544

Mercury -71921-04-23 20:52 J -24547608.74 -24547608.63 -24547608.53 0.2721 0.0310

Mercury -71918-10-22 07:54 J -24546332.28 -24546332.17 -24546332.06 0.2613 0.1875

Venus -71917-03-10 21:21 J -24546191.76 -24546191.61 -24546191.46 0.2676 0.0694

Mercury -71908-04-26 14:23 J -24542857.99 -24542857.90 -24542857.81 0.2723 0.1467

Mercury -71901-04-19 14:23 J -24540307.98 -24540307.90 -24540307.82 0.2717 0.1797

Mercury -71898-10-16 22:04 J -24539032.62 -24539032.58 -24539032.53 0.2617 0.2496

Mercury -71895-04-29 08:09 J -24538107.18 -24538107.16 -24538107.14 0.2724 0.2644

Mercury -71888-04-22 07:54 J -24535557.27 -24535557.17 -24535557.06 0.2719 0.0630

Mercury -71885-10-19 06:28 J -24534281.39 -24534281.23 -24534281.07 0.2615 0.0072

Mercury -71875-04-25 01:40 J -24530806.54 -24530806.43 -24530806.33 0.2721 0.0545

Mercury -71872-10-22 14:37 J -24529529.96 -24529529.89 -24529529.82 0.2612 0.2339

Mercury -71862-04-27 19:11 J -24526055.78 -24526055.70 -24526055.61 0.2723 0.1711

Mercury -71855-04-20 19:11 J -24523505.79 -24523505.70 -24523505.62 0.2718 0.1561

Mercury -71852-10-17 04:47 J -24522230.40 -24522230.30 -24522230.19 0.2616 0.2029

Mercury -71842-04-23 12:42 J -24518755.08 -24518754.97 -24518754.86 0.2719 0.0394

Mercury -71839-10-20 13:11 J -24517479.11 -24517478.95 -24517478.79 0.2614 0.0400

Mercury -71829-04-25 06:28 J -24514004.34 -24514004.23 -24514004.13 0.2721 0.0782

Mercury -71822-04-19 06:13 J -24511454.28 -24511454.24 -24511454.20 0.2716 0.2478

Mercury -71816-04-27 23:59 J -24509253.57 -24509253.50 -24509253.42 0.2723 0.1949

Mercury -71809-04-20 23:59 J -24506703.60 -24506703.50 -24506703.41 0.2718 0.1326

Mercury -71806-10-18 11:45 J -24505428.14 -24505428.01 -24505427.88 0.2616 0.1559
 Mercury -71796-04-23 17:30 J -24501952.88 -24501952.77 -24501952.66 0.2720 0.0156
 Mercury -71793-10-20 20:09 J -24500676.82 -24500676.66 -24500676.51 0.2614 0.0866
 Mercury -71783-04-26 11:16 J -24497202.13 -24497202.03 -24497201.93 0.2721 0.1017
 Venus -71780-09-03 07:40 J -24495976.34 -24495976.18 -24495976.02 0.2660 0.0742
 Mercury -71776-04-19 11:01 J -24494652.10 -24494652.04 -24494651.98 0.2716 0.2242
 Mercury -71770-04-29 04:47 J -24492451.36 -24492451.30 -24492451.23 0.2723 0.2188
 Mercury -71763-04-22 04:33 J -24489901.40 -24489901.31 -24489901.21 0.2718 0.1088
 Mercury -71760-10-18 18:28 J -24488625.88 -24488625.73 -24488625.58 0.2616 0.1092
 Mercury -71750-04-24 22:18 J -24485150.68 -24485150.57 -24485150.46 0.2720 0.0083
 Mercury -71747-10-22 02:52 J -24483874.52 -24483874.38 -24483874.24 0.2614 0.1326
 Mercury -71737-04-26 16:04 J -24480399.93 -24480399.83 -24480399.74 0.2722 0.1253
 Mercury -71730-04-20 15:49 J -24477849.91 -24477849.84 -24477849.77 0.2716 0.2007
 Mercury -71724-04-29 09:35 J -24475649.14 -24475649.10 -24475649.05 0.2723 0.2424
 Mercury -71717-04-22 09:21 J -24473099.21 -24473099.11 -24473099.00 0.2718 0.0852
 Mercury -71714-10-20 01:25 J -24471823.60 -24471823.44 -24471823.28 0.2616 0.0619
 Mercury -71704-04-25 03:06 J -24468348.48 -24468348.37 -24468348.26 0.2720 0.0322
 Mercury -71701-10-22 09:35 J -24467072.22 -24467072.10 -24467071.98 0.2614 0.1794
 Mercury -71691-04-27 20:52 J -24463597.72 -24463597.63 -24463597.54 0.2722 0.1494
 Mercury -71684-04-20 20:37 J -24461047.72 -24461047.64 -24461047.56 0.2717 0.1767
 Mercury -71681-10-16 23:59 J -24459772.53 -24459772.50 -24459772.48 0.2618 0.2571
 Mercury -71678-04-30 14:23 J -24458846.92 -24458846.90 -24458846.88 0.2723 0.2662
 Venus -71674-03-12 00:42 J -24457435.62 -24457435.47 -24457435.33 0.2675 0.0763
 Mercury -71671-04-23 14:09 J -24456297.01 -24456296.91 -24456296.80 0.2718 0.0617
 Mercury -71668-10-20 08:09 J -24455021.32 -24455021.16 -24455020.99 0.2616 0.0151
 Mercury -71658-04-26 07:54 J -24451546.28 -24451546.17 -24451546.07 0.2720 0.0557
 Mercury -71655-10-23 16:33 J -24450269.89 -24450269.81 -24450269.73 0.2613 0.2261
 Mercury -71651-04-19 07:54 J -24448996.19 -24448996.17 -24448996.16 0.2715 0.2686
 Mercury -71645-04-28 01:40 J -24446795.52 -24446795.43 -24446795.35 0.2722 0.1730
 Mercury -71638-04-22 01:25 J -24444245.53 -24444245.44 -24444245.35 0.2717 0.1530

Mercury -71635-10-18 06:42 J -24442970.32 -24442970.22 -24442970.12 0.2617 0.2101

Mercury -71625-04-23 18:57 J -24439494.81 -24439494.71 -24439494.60 0.2719 0.0382

Mercury -71622-10-21 15:06 J -24438219.04 -24438218.87 -24438218.71 0.2615 0.0323

Mercury -71612-04-26 12:42 J -24434744.07 -24434743.97 -24434743.87 0.2720 0.0795

Mercury -71605-04-19 12:28 J -24432194.02 -24432193.98 -24432193.93 0.2715 0.2453

Mercury -71599-04-29 06:28 J -24429993.31 -24429993.23 -24429993.16 0.2722 0.1966

Mercury -71592-04-22 06:13 J -24427443.33 -24427443.24 -24427443.15 0.2717 0.1290

Mercury -71589-10-18 13:25 J -24426168.06 -24426167.94 -24426167.81 0.2617 0.1637

Mercury -71579-04-24 23:45 J -24422692.61 -24422692.51 -24422692.40 0.2719 0.0167

Mercury -71576-10-21 21:49 J -24421416.75 -24421416.59 -24421416.44 0.2615 0.0784

Mercury -71566-04-27 17:30 J -24417941.87 -24417941.77 -24417941.67 0.2721 0.1034

Mercury -71559-04-20 17:16 J -24415391.84 -24415391.78 -24415391.72 0.2715 0.2217

Mercury -71553-04-29 11:16 J -24413191.10 -24413191.03 -24413190.97 0.2722 0.2203

Mercury -71546-04-23 11:01 J -24410641.14 -24410641.04 -24410640.94 0.2717 0.1057

Mercury -71543-10-19 20:23 J -24409365.80 -24409365.65 -24409365.51 0.2617 0.1165

Venus -71537-09-03 05:59 J -24407220.40 -24407220.25 -24407220.10 0.2662 0.1081

Mercury -71533-04-25 04:33 J -24405890.41 -24405890.31 -24405890.20 0.2719 0.0152

Mercury -71530-10-23 04:33 J -24404614.45 -24404614.31 -24404614.16 0.2615 0.1252

Mercury -71520-04-27 22:18 J -24401139.66 -24401139.57 -24401139.48 0.2721 0.1274

Mercury -71513-04-20 22:04 J -24398589.65 -24398589.58 -24398589.50 0.2716 0.1979

Mercury -71507-04-30 16:04 J -24396388.88 -24396388.83 -24396388.79 0.2722 0.2443

Mercury -71500-04-23 15:49 J -24393838.94 -24393838.84 -24393838.74 0.2717 0.0818

Mercury -71497-10-20 03:06 J -24392563.53 -24392563.37 -24392563.21 0.2617 0.0698

Mercury -71487-04-26 09:21 J -24389088.21 -24389088.11 -24389088.00 0.2719 0.0360

Mercury -71484-10-23 11:30 J -24387812.15 -24387812.02 -24387811.90 0.2614 0.1719

Mercury -71474-04-29 03:06 J -24384337.46 -24384337.37 -24384337.28 0.2721 0.1510

Mercury -71467-04-22 02:52 J -24381787.46 -24381787.38 -24381787.29 0.2716 0.1743

Mercury -71461-04-30 20:52 J -24379586.65 -24379586.63 -24379586.62 0.2723 0.2680

Mercury -71454-04-24 20:37 J -24377036.75 -24377036.64 -24377036.54 0.2718 0.0584

Mercury -71451-10-21 09:49 J -24375761.25 -24375761.09 -24375760.92 0.2616 0.0241

Mercury -71441-04-26 14:09 J -24372286.01 -24372285.91 -24372285.80 0.2719 0.0590

Mercury -71438-10-24 18:13 J -24371009.83 -24371009.74 -24371009.65 0.2614 0.2178

Mercury -71434-04-20 14:09 J -24369735.93 -24369735.91 -24369735.89 0.2714 0.2659

Venus -71431-03-12 03:49 J -24368679.49 -24368679.34 -24368679.19 0.2673 0.0842

Mercury -71428-04-29 07:54 J -24367535.25 -24367535.17 -24367535.09 0.2721 0.1745

Mercury -71421-04-22 07:40 J -24364985.27 -24364985.18 -24364985.09 0.2716 0.1505

Mercury -71418-10-19 08:23 J -24363710.24 -24363710.15 -24363710.06 0.2618 0.2186

Mercury -71408-04-25 01:25 J -24360234.55 -24360234.44 -24360234.33 0.2718 0.0346

Mercury -71405-10-21 16:47 J -24358958.97 -24358958.80 -24358958.64 0.2616 0.0242

Mercury -71395-04-27 18:57 J -24355483.81 -24355483.71 -24355483.60 0.2719 0.0821

Mercury -71388-04-20 18:57 J -24352933.76 -24352933.71 -24352933.67 0.2714 0.2420

Mercury -71382-04-30 12:42 J -24350733.04 -24350732.97 -24350732.90 0.2721 0.1981

Mercury -71375-04-23 12:28 J -24348183.07 -24348182.98 -24348182.88 0.2716 0.1271

Mercury -71372-10-19 15:21 J -24346907.99 -24346907.86 -24346907.74 0.2618 0.1710

Mercury -71362-04-26 06:13 J -24343432.35 -24343432.24 -24343432.13 0.2718 0.0114

Mercury -71359-10-22 23:30 J -24342156.67 -24342156.52 -24342156.36 0.2616 0.0706

Mercury -71349-04-27 23:45 J -24338681.61 -24338681.51 -24338681.41 0.2720 0.1056

Mercury -71342-04-21 23:45 J -24336131.57 -24336131.51 -24336131.45 0.2715 0.2186

Mercury -71336-04-30 17:30 J -24333930.83 -24333930.77 -24333930.71 0.2721 0.2218

Mercury -71329-04-23 17:16 J -24331380.88 -24331380.78 -24331380.68 0.2716 0.1031

Mercury -71326-10-20 22:04 J -24330105.72 -24330105.58 -24330105.44 0.2618 0.1247

Mercury -71316-04-26 11:01 J -24326630.15 -24326630.04 -24326629.93 0.2718 0.0134

Mercury -71313-10-23 06:28 J -24325354.38 -24325354.23 -24325354.09 0.2616 0.1177

Mercury -71303-04-29 04:33 J -24321879.40 -24321879.31 -24321879.21 0.2720 0.1290

Mercury -71296-04-22 04:33 J -24319329.38 -24319329.31 -24319329.24 0.2715 0.1948

Venus -71294-09-04 04:18 J -24318464.45 -24318464.32 -24318464.18 0.2664 0.1395

Mercury -71290-05-01 22:18 J -24317128.62 -24317128.57 -24317128.53 0.2722 0.2454

Mercury -71283-04-24 22:04 J -24314578.68 -24314578.58 -24314578.47 0.2717 0.0799

Mercury -71280-10-21 04:47 J -24313303.45 -24313303.30 -24313303.14 0.2617 0.0780

Mercury -71270-04-27 15:49 J -24309827.95 -24309827.84 -24309827.74 0.2718 0.0371

Mercury -71267-10-24 13:11 J -24308552.08 -24308551.95 -24308551.82 0.2615 0.1635

Mercury -71257-04-29 09:21 J -24305077.20 -24305077.11 -24305077.02 0.2720 0.1528

Mercury -71250-04-23 09:21 J -24302527.19 -24302527.11 -24302527.03 0.2715 0.1713

Mercury -71244-05-02 03:06 J -24300326.38 -24300326.37 -24300326.36 0.2722 0.2690

Mercury -71237-04-25 02:52 J -24297776.48 -24297776.38 -24297776.27 0.2717 0.0561

Mercury -71234-10-22 11:45 J -24296501.18 -24296501.01 -24296500.85 0.2617 0.0323

Mercury -71224-04-27 20:37 J -24293025.75 -24293025.64 -24293025.54 0.2719 0.0604

Mercury -71221-10-24 19:54 J -24291749.76 -24291749.67 -24291749.57 0.2615 0.2101

Mercury -71217-04-20 20:23 J -24290475.67 -24290475.65 -24290475.62 0.2713 0.2629

Mercury -71211-04-30 14:09 J -24288274.99 -24288274.91 -24288274.83 0.2720 0.1764

Mercury -71204-04-23 14:09 J -24285725.00 -24285724.91 -24285724.82 0.2715 0.1476

Mercury -71201-10-19 10:04 J -24284450.16 -24284450.08 -24284450.00 0.2619 0.2265

Mercury -71191-04-26 07:40 J -24280974.28 -24280974.18 -24280974.07 0.2717 0.0330

Venus -71188-03-12 06:57 J -24279923.35 -24279923.21 -24279923.06 0.2671 0.0930

Mercury -71188-10-22 18:28 J -24279698.89 -24279698.73 -24279698.56 0.2617 0.0162

Mercury -71178-04-29 01:25 J -24276223.55 -24276223.44 -24276223.34 0.2719 0.0841

Mercury -71175-10-26 02:52 J -24274947.41 -24274947.38 -24274947.35 0.2615 0.2562

Mercury -71171-04-22 01:11 J -24273673.50 -24273673.45 -24273673.40 0.2713 0.2397

Mercury -71165-04-30 18:57 J -24271472.78 -24271472.71 -24271472.64 0.2720 0.2001

Mercury -71158-04-24 18:57 J -24268922.81 -24268922.71 -24268922.62 0.2715 0.1241

Mercury -71155-10-20 17:01 J -24267647.91 -24267647.79 -24267647.68 0.2619 0.1805

Mercury -71145-04-26 12:28 J -24264172.09 -24264171.98 -24264171.87 0.2717 0.0099

Mercury -71142-10-24 01:11 J -24262896.60 -24262896.45 -24262896.29 0.2617 0.0626

Mercury -71132-04-29 06:13 J -24259421.34 -24259421.24 -24259421.14 0.2719 0.1074

Mercury -71125-04-22 05:59 J -24256871.31 -24256871.25 -24256871.18 0.2714 0.2159

Mercury -71119-05-01 23:45 J -24254670.57 -24254670.51 -24254670.45 0.2721 0.2236

Mercury -71112-04-24 23:45 J -24252120.61 -24252120.51 -24252120.41 0.2716 0.1009

Mercury -71109-10-20 23:45 J -24250845.65 -24250845.51 -24250845.37 0.2619 0.1332

Mercury -71099-04-27 17:16 J -24247369.89 -24247369.78 -24247369.67 0.2717 0.0150

Mercury -71096-10-24 08:09 J -24246094.31 -24246094.16 -24246094.01 0.2616 0.1082

Mercury -71086-04-30 11:01 J -24242619.14 -24242619.04 -24242618.95 0.2719 0.1312

Mercury -71079-04-23 10:47 J -24240069.12 -24240069.05 -24240068.97 0.2714 0.1924

Mercury -71073-05-02 04:33 J -24237868.35 -24237868.31 -24237868.26 0.2721 0.2470

Mercury -71066-04-26 04:33 J -24235318.42 -24235318.31 -24235318.21 0.2716 0.0772

Mercury -71063-10-22 06:42 J -24234043.38 -24234043.22 -24234043.07 0.2618 0.0868

Mercury -71053-04-27 22:04 J -24230567.69 -24230567.58 -24230567.47 0.2718 0.0386

Venus -71051-09-04 02:52 J -24229708.50 -24229708.38 -24229708.25 0.2666 0.1702

Mercury -71050-10-25 14:52 J -24229292.01 -24229291.88 -24229291.75 0.2616 0.1549

Mercury -71040-04-30 15:49 J -24225816.93 -24225816.84 -24225816.76 0.2719 0.1545

Mercury -71033-04-23 15:35 J -24223266.93 -24223266.85 -24223266.76 0.2714 0.1686

Mercury -71027-05-03 09:21 J -24221066.11 -24221066.11 -24221066.10 0.2721 0.2707

Mercury -71020-04-26 09:21 J -24218516.22 -24218516.11 -24218516.01 0.2716 0.0540

Mercury -71017-10-22 13:25 J -24217241.10 -24217240.94 -24217240.77 0.2618 0.0391

Mercury -71007-04-29 02:52 J -24213765.48 -24213765.38 -24213765.27 0.2718 0.0623

Mercury -71004-10-25 21:49 J -24212489.69 -24212489.59 -24212489.49 0.2616 0.2019

71ST MILLENNIUM BCE

This is a list of transits visible from Earth in the 71st millennium BCE.

PLANET	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
	TRANSIT							
	TIME							

Mercury -71000-04-22 02:52 J -24211215.41 -24211215.38 -24211215.35 0.2712 0.2601

Mercury -70994-05-01 20:37 J -24209014.72 -24209014.64 -24209014.56 0.2720 0.1782

Mercury -70987-04-24 20:23 J -24206464.74 -24206464.65 -24206464.56 0.2714 0.1452

Mercury -70984-10-20 11:59 J -24205190.07 -24205190.00 -24205189.93 0.2620 0.2349

Mercury -70974-04-27 14:09 J -24201714.02 -24201713.91 -24201713.81 0.2716 0.0306

Mercury -70971-10-23 20:23 J -24200438.82 -24200438.65 -24200438.49 0.2618 0.0101

Mercury -70961-04-29 07:40 J -24196963.28 -24196963.18 -24196963.08 0.2718 0.0858

Mercury -70958-10-27 04:33 J -24195687.35 -24195687.31 -24195687.26 0.2616 0.2488

Mercury -70954-04-23 07:40 J -24194413.23 -24194413.18 -24194413.13 0.2713 0.2365

Mercury -70948-05-02 01:25 J -24192212.51 -24192212.44 -24192212.37 0.2720 0.2017

Venus -70945-03-12 10:18 J -24191167.21 -24191167.07 -24191166.92 0.2669 0.1022

Mercury -70941-04-25 01:11 J -24189662.54 -24189662.45 -24189662.35 0.2714 0.1218

Mercury -70938-10-21 18:42 J -24188387.83 -24188387.72 -24188387.61 0.2620 0.1882

Mercury -70928-04-27 18:57 J -24184911.82 -24184911.71 -24184911.61 0.2716 0.0108

Mercury -70925-10-24 03:06 J -24183636.53 -24183636.37 -24183636.21 0.2618 0.0538

Mercury -70915-04-30 12:28 J -24180161.08 -24180160.98 -24180160.88 0.2718 0.1096

Mercury -70908-04-23 12:28 J -24177611.05 -24177610.98 -24177610.92 0.2713 0.2130

Mercury -70902-05-03 06:13 J -24175410.30 -24175410.24 -24175410.18 0.2720 0.2253

Mercury -70895-04-26 05:59 J -24172860.35 -24172860.25 -24172860.15 0.2715 0.0982

Mercury -70892-10-22 01:25 J -24171585.57 -24171585.44 -24171585.30 0.2619 0.1418

Mercury -70882-04-28 23:45 J -24168109.62 -24168109.51 -24168109.41 0.2717 0.0191

Mercury -70879-10-25 09:49 J -24166834.24 -24166834.09 -24166833.94 0.2617 0.0997

Mercury -70869-04-30 17:16 J -24163358.87 -24163358.78 -24163358.69 0.2718 0.1326

Mercury -70862-04-24 17:16 J -24160808.86 -24160808.78 -24160808.71 0.2713 0.1898

Mercury -70856-05-03 11:01 J -24158608.08 -24158608.04 -24158608.00 0.2720 0.2488

Mercury -70849-04-26 10:47 J -24156058.15 -24156058.05 -24156057.95 0.2715 0.0746

Mercury -70846-10-23 08:23 J -24154783.30 -24154783.15 -24154783.00 0.2619 0.0948

Mercury -70836-04-29 04:33 J -24151307.42 -24151307.31 -24151307.21 0.2717 0.0416

Mercury -70833-10-25 16:47 J -24150031.94 -24150031.80 -24150031.67 0.2617 0.1468

Mercury -70823-05-01 22:04 J -24146556.67 -24146556.58 -24146556.49 0.2719 0.1564

Mercury -70816-04-24 22:04 J -24144006.67 -24144006.58 -24144006.50 0.2713 0.1666

Venus -70816-09-06 12:13 J -24143872.02 -24143871.99 -24143871.95 0.2665 0.2593

Mercury -70810-05-04 15:49 J -24141805.84 -24141805.84 -24141805.84 0.2720 0.2720

Venus -70808-09-04 01:25 J -24140952.54 -24140952.44 -24140952.34 0.2668 0.2033

Mercury -70803-04-27 15:35 J -24139255.95 -24139255.85 -24139255.74 0.2715 0.0512

Mercury -70800-10-23 15:06 J -24137981.03 -24137980.87 -24137980.71 0.2619 0.0486

Mercury -70790-04-30 09:21 J -24134505.22 -24134505.11 -24134505.01 0.2717 0.0649

Mercury -70787-10-26 23:30 J -24133229.63 -24133229.52 -24133229.41 0.2617 0.1929

Mercury -70783-04-23 09:06 J -24131955.15 -24131955.12 -24131955.09 0.2712 0.2574

Mercury -70777-05-02 02:52 J -24129754.46 -24129754.38 -24129754.30 0.2719 0.1797

Mercury -70770-04-26 02:52 J -24127204.47 -24127204.38 -24127204.29 0.2714 0.1429

Mercury -70767-10-21 13:40 J -24125929.99 -24125929.93 -24125929.87 0.2621 0.2432

Mercury -70757-04-27 20:23 J -24122453.76 -24122453.65 -24122453.54 0.2715 0.0280

Mercury -70754-10-24 22:04 J -24121178.75 -24121178.58 -24121178.42 0.2619 0.0028

Mercury -70744-04-30 14:09 J -24117703.02 -24117702.91 -24117702.81 0.2717 0.0883

Mercury -70741-10-27 06:13 J -24116427.30 -24116427.24 -24116427.17 0.2616 0.2389

Mercury -70737-04-23 13:54 J -24115152.97 -24115152.92 -24115152.87 0.2712 0.2338

Mercury -70731-05-03 07:40 J -24112952.25 -24112952.18 -24112952.11 0.2719 0.2032

Mercury -70724-04-26 07:40 J -24110402.28 -24110402.18 -24110402.09 0.2714 0.1192

Mercury -70721-10-21 20:23 J -24109127.75 -24109127.65 -24109127.54 0.2621 0.1961

Mercury -70711-04-29 01:11 J -24105651.56 -24105651.45 -24105651.34 0.2716 0.0057

Mercury -70708-10-25 04:47 J -24104376.46 -24104376.30 -24104376.14 0.2618 0.0449

Venus -70702-03-13 13:25 J -24102411.08 -24102410.94 -24102410.79 0.2667 0.1113

Mercury -70698-05-01 18:57 J -24100900.81 -24100900.71 -24100900.62 0.2717 0.1115

Mercury -70691-04-24 18:42 J -24098350.78 -24098350.72 -24098350.65 0.2712 0.2105

Mercury -70685-05-03 12:28 J -24096150.04 -24096149.98 -24096149.92 0.2719 0.2262

Mercury -70678-04-27 12:28 J -24093600.08 -24093599.98 -24093599.88 0.2714 0.0958

Mercury -70675-10-23 03:21 J -24092325.49 -24092325.36 -24092325.23 0.2620 0.1499

Mercury -70665-04-29 05:59 J -24088849.36 -24088849.25 -24088849.14 0.2716 0.0198

Mercury -70662-10-26 11:45 J -24087574.16 -24087574.01 -24087573.86 0.2618 0.0921

Mercury -70652-05-01 23:45 J -24084098.61 -24084098.51 -24084098.42 0.2718 0.1351

Mercury -70645-04-24 23:30 J -24081548.59 -24081548.52 -24081548.44 0.2712 0.1872

Mercury -70639-05-04 17:16 J -24079347.82 -24079347.78 -24079347.74 0.2719 0.2498

Mercury -70632-04-27 17:16 J -24076797.89 -24076797.78 -24076797.68 0.2714 0.0727

Mercury -70629-10-23 10:04 J -24075523.23 -24075523.08 -24075522.93 0.2620 0.1036

Mercury -70619-04-30 10:47 J -24072047.16 -24072047.05 -24072046.94 0.2716 0.0430

Mercury -70616-10-26 18:28 J -24070771.87 -24070771.73 -24070771.59 0.2618 0.1378

Mercury -70606-05-03 04:33 J -24067296.40 -24067296.31 -24067296.23 0.2718 0.1584

Mercury -70599-04-26 04:18 J -24064746.40 -24064746.32 -24064746.23 0.2712 0.1637

Mercury -70586-04-28 22:04 J -24059995.69 -24059995.58 -24059995.48 0.2714 0.0496

Mercury -70583-10-24 17:01 J -24058720.95 -24058720.79 -24058720.63 0.2620 0.0575

Mercury -70573-04-30 15:35 J -24055244.95 -24055244.85 -24055244.75 0.2716 0.0661

Venus -70573-09-06 10:47 J -24055116.13 -24055116.05 -24055115.97 0.2667 0.2277

Mercury -70570-10-28 01:11 J -24053969.56 -24053969.45 -24053969.33 0.2618 0.1842

Mercury -70566-04-24 15:35 J -24052694.89 -24052694.85 -24052694.82 0.2711 0.2549

Venus -70565-09-04 00:13 J -24052196.57 -24052196.49 -24052196.41 0.2670 0.2315

Mercury -70560-05-03 09:06 J -24050494.19 -24050494.12 -24050494.04 0.2718 0.1818

Mercury -70553-04-26 09:06 J -24047944.21 -24047944.12 -24047944.03 0.2713 0.1401

Mercury -70550-10-22 15:21 J -24046669.90 -24046669.86 -24046669.82 0.2622 0.2518

Mercury -70540-04-29 02:52 J -24043193.49 -24043193.38 -24043193.28 0.2715 0.0266

Mercury -70537-10-24 23:45 J -24041918.67 -24041918.51 -24041918.35 0.2620 0.0112

Mercury -70527-05-01 20:23 J -24038442.75 -24038442.65 -24038442.55 0.2716 0.0896

Mercury -70524-10-28 08:09 J -24037167.24 -24037167.16 -24037167.09 0.2617 0.2300

Mercury -70520-04-24 20:23 J -24035892.71 -24035892.65 -24035892.60 0.2711 0.2315

Mercury -70514-05-04 13:54 J -24033691.98 -24033691.92 -24033691.85 0.2718 0.2046

Mercury -70507-04-27 13:54 J -24031142.02 -24031141.92 -24031141.82 0.2713 0.1169

Mercury -70504-10-22 22:04 J -24029867.67 -24029867.58 -24029867.48 0.2622 0.2056

Mercury -70494-04-30 07:40 J -24026391.29 -24026391.18 -24026391.08 0.2715 0.0104

Mercury -70491-10-26 06:28 J -24025116.39 -24025116.23 -24025116.06 0.2619 0.0366

Mercury -70481-05-02 01:11 J -24021640.55 -24021640.45 -24021640.35 0.2717 0.1129

Mercury -70474-04-26 01:11 J -24019090.52 -24019090.45 -24019090.39 0.2711 0.2082

Mercury -70468-05-04 18:42 J -24016889.77 -24016889.72 -24016889.66 0.2718 0.2283

Mercury -70461-04-27 18:42 J -24014339.82 -24014339.72 -24014339.62 0.2713 0.0935

Venus -70459-03-13 16:47 J -24013654.94 -24013654.80 -24013654.66 0.2666 0.1217

Mercury -70458-10-24 05:01 J -24013065.42 -24013065.29 -24013065.16 0.2621 0.1587

Mercury -70448-04-30 12:28 J -24009589.09 -24009588.98 -24009588.88 0.2715 0.0243

Mercury -70445-10-26 13:25 J -24008314.10 -24008313.94 -24008313.79 0.2619 0.0823

Mercury -70435-05-03 05:59 J -24004838.34 -24004838.25 -24004838.16 0.2717 0.1361

Mercury -70428-04-26 05:59 J -24002288.33 -24002288.25 -24002288.17 0.2711 0.1844

Mercury -70422-05-05 23:30 J -24000087.55 -24000087.52 -24000087.48 0.2719 0.2514

Mercury -70415-04-28 23:30 J -23997537.62 -23997537.52 -23997537.41 0.2713 0.0702

Mercury -70412-10-24 11:59 J -23996263.15 -23996263.00 -23996262.86 0.2621 0.1124

Mercury -70402-05-01 17:01 J -23992786.89 -23992786.79 -23992786.68 0.2715 0.0457

Mercury -70399-10-27 20:09 J -23991511.80 -23991511.66 -23991511.51 0.2619 0.1292

Mercury -70389-05-03 10:47 J -23988036.14 -23988036.05 -23988035.96 0.2717 0.1593

Mercury -70382-04-27 10:47 J -23985486.14 -23985486.05 -23985485.97 0.2712 0.1610

Mercury -70369-04-29 04:18 J -23980735.42 -23980735.32 -23980735.21 0.2714 0.0465

Mercury -70366-10-25 18:42 J -23979460.88 -23979460.72 -23979460.56 0.2621 0.0659

Mercury -70356-05-01 21:49 J -23975984.69 -23975984.59 -23975984.48 0.2715 0.0689

Mercury -70353-10-28 03:06 J -23974709.49 -23974709.37 -23974709.25 0.2618 0.1749

Mercury -70349-04-24 21:49 J -23973434.62 -23973434.59 -23973434.55 0.2710 0.2520

Mercury -70343-05-04 15:35 J -23971233.93 -23971233.85 -23971233.77 0.2717 0.1825

Mercury -70336-04-27 15:35 J -23968683.95 -23968683.85 -23968683.76 0.2712 0.1380

Mercury -70333-10-22 17:01 J -23967409.80 -23967409.79 -23967409.77 0.2623 0.2604

Venus -70330-09-07 09:35 J -23966360.21 -23966360.10 -23966360.00 0.2669 0.1969

Mercury -70323-04-30 09:06 J -23963933.23 -23963933.12 -23963933.01 0.2714 0.0233

Venus -70322-09-04 22:47 J -23963440.57 -23963440.55 -23963440.54 0.2672 0.2645

Mercury -70320-10-26 01:25 J -23962658.60 -23962658.44 -23962658.27 0.2620 0.0204

Mercury -70310-05-03 02:37 J -23959182.49 -23959182.39 -23959182.28 0.2716 0.0922

Mercury -70307-10-29 09:49 J -23957907.17 -23957907.09 -23957907.00 0.2618 0.2216

Mercury -70303-04-26 02:37 J -23956632.44 -23956632.39 -23956632.33 0.2710 0.2289

Mercury -70297-05-04 20:23 J -23954431.72 -23954431.65 -23954431.58 0.2718 0.2062

Mercury -70290-04-28 20:23 J -23951881.75 -23951881.65 -23951881.56 0.2712 0.1147

Mercury -70287-10-23 23:59 J -23950607.59 -23950607.50 -23950607.41 0.2622 0.2145

Mercury -70277-04-30 13:54 J -23947131.03 -23947130.92 -23947130.81 0.2714 0.0006

Mercury -70274-10-27 08:23 J -23945856.32 -23945856.15 -23945855.99 0.2620 0.0273

Mercury -70264-05-03 07:25 J -23942380.28 -23942380.19 -23942380.09 0.2716 0.1151

Mercury -70257-04-26 07:25 J -23939830.26 -23939830.19 -23939830.12 0.2710 0.2052

Mercury -70251-05-06 01:11 J -23937629.51 -23937629.45 -23937629.40 0.2718 0.2294

Mercury -70244-04-29 01:11 J -23935079.56 -23935079.45 -23935079.35 0.2712 0.0918

Mercury -70241-10-24 06:42 J -23933805.34 -23933805.22 -23933805.10 0.2622 0.1682

Mercury -70231-05-01 18:42 J -23930328.83 -23930328.72 -23930328.61 0.2714 0.0232

Mercury -70228-10-27 15:06 J -23929054.03 -23929053.87 -23929053.71 0.2620 0.0730

Mercury -70218-05-04 12:13 J -23925578.08 -23925577.99 -23925577.89 0.2716 0.1381

Venus -70216-03-13 19:54 J -23924898.81 -23924898.67 -23924898.53 0.2664 0.1308

Mercury -70211-04-27 12:13 J -23923028.07 -23923027.99 -23923027.91 0.2711 0.1822

Venus -70208-03-11 13:25 J -23921978.98 -23921978.94 -23921978.91 0.2661 0.2582

Mercury -70205-05-06 05:59 J -23920827.29 -23920827.25 -23920827.21 0.2718 0.2525

Mercury -70198-04-30 05:59 J -23918277.36 -23918277.25 -23918277.15 0.2713 0.0689

Mercury -70195-10-25 13:25 J -23917003.08 -23917002.94 -23917002.79 0.2622 0.1221

Mercury -70185-05-01 23:30 J -23913526.63 -23913526.52 -23913526.41 0.2714 0.0465

Mercury -70182-10-28 21:49 J -23912251.73 -23912251.59 -23912251.44 0.2620 0.1190

Mercury -70172-05-04 17:01 J -23908775.87 -23908775.79 -23908775.70 0.2716 0.1612

Mercury -70165-04-27 17:01 J -23906225.88 -23906225.79 -23906225.70 0.2711 0.1590

Mercury -70152-04-30 10:33 J -23901475.16 -23901475.06 -23901474.95 0.2713 0.0464

Mercury -70149-10-25 20:23 J -23900200.80 -23900200.65 -23900200.49 0.2622 0.0752

Mercury -70139-05-03 04:18 J -23896724.42 -23896724.32 -23896724.22 0.2715 0.0698

Mercury -70136-10-29 04:47 J -23895449.43 -23895449.30 -23895449.17 0.2619 0.1654

Mercury -70132-04-26 04:18 J -23894174.36 -23894174.32 -23894174.28 0.2709 0.2497

Mercury -70126-05-05 21:49 J -23891973.66 -23891973.59 -23891973.51 0.2716 0.1844

Mercury -70119-04-28 21:49 J -23889423.68 -23889423.59 -23889423.50 0.2711 0.1357

Mercury -70106-05-01 15:21 J -23884672.96 -23884672.86 -23884672.75 0.2713 0.0246

Mercury -70103-10-27 03:21 J -23883398.53 -23883398.36 -23883398.20 0.2621 0.0290

Mercury -70093-05-03 09:06 J -23879922.22 -23879922.12 -23879922.02 0.2715 0.0927

Mercury -70090-10-30 11:45 J -23878647.11 -23878647.01 -23878646.92 0.2619 0.2120

Venus -70087-09-07 07:54 J -23877604.29 -23877604.17 -23877604.04 0.2671 0.1643

Mercury -70086-04-27 09:06 J -23877372.18 -23877372.12 -23877372.07 0.2709 0.2261

Mercury -70080-05-06 02:37 J -23875171.46 -23875171.39 -23875171.32 0.2717 0.2074

Mercury -70073-04-29 02:37 J -23872621.49 -23872621.39 -23872621.29 0.2711 0.1123

Mercury -70070-10-25 01:40 J -23871347.51 -23871347.43 -23871347.35 0.2623 0.2233

Mercury -70060-05-01 20:23 J -23867870.76 -23867870.65 -23867870.55 0.2713 0.0121

Mercury -70057-10-27 10:04 J -23866596.24 -23866596.08 -23866595.92 0.2621 0.0177

Mercury -70047-05-04 13:54 J -23863120.02 -23863119.92 -23863119.82 0.2715 0.1162

Mercury -70044-10-30 18:28 J -23861844.75 -23861844.73 -23861844.71 0.2619 0.2580

Mercury -70040-04-27 13:54 J -23860569.99 -23860569.92 -23860569.85 0.2710 0.2034

Mercury -70034-05-07 07:25 J -23858369.24 -23858369.19 -23858369.13 0.2717 0.2305

Mercury -70027-04-30 07:25 J -23855819.29 -23855819.19 -23855819.09 0.2712 0.0889

Mercury -70024-10-25 08:23 J -23854545.26 -23854545.15 -23854545.03 0.2623 0.1772

Mercury -70014-05-03 01:11 J -23851068.56 -23851068.45 -23851068.35 0.2713 0.0278

Mercury -70011-10-28 16:47 J -23849793.96 -23849793.80 -23849793.64 0.2621 0.0635

Mercury -70001-05-04 18:42 J -23846317.81 -23846317.72 -23846317.63 0.2715 0.1394

70TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 70th millennium BCE.

PLANET	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
TRANSIT								
TIME								
Mercury	-69994-04-28	18:42	J -23843767.80	-23843767.72	-23843767.64	0.2710	0.1800	
Mercury	-69988-05-07	12:13	J -23841567.02	-23841566.99	-23841566.95	0.2717	0.2536	

Mercury -69981-04-30 12:13 J -23839017.09 -23839016.99 -23839016.88 0.2712 0.0661

Mercury -69978-10-26 15:21 J -23837743.00 -23837742.86 -23837742.72 0.2623 0.1306

Venus -69973-03-13 23:01 J -23836142.67 -23836142.54 -23836142.41 0.2662 0.1411

Mercury -69968-05-03 05:45 J -23834266.36 -23834266.26 -23834266.15 0.2714 0.0497

Venus -69965-03-11 16:33 J -23833222.87 -23833222.81 -23833222.76 0.2660 0.2489

Mercury -69965-10-28 23:45 J -23832991.66 -23832991.51 -23832991.36 0.2620 0.1097

Mercury -69961-04-26 05:45 J -23831716.26 -23831716.26 -23831716.26 0.2708 0.2705

Mercury -69955-05-05 23:30 J -23829515.61 -23829515.52 -23829515.44 0.2716 0.1627

Mercury -69948-04-28 23:16 J -23826965.61 -23826965.53 -23826965.44 0.2710 0.1574

Mercury -69935-05-01 17:01 J -23822214.90 -23822214.79 -23822214.68 0.2712 0.0426

Mercury -69932-10-26 22:04 J -23820940.73 -23820940.58 -23820940.42 0.2622 0.0851

Mercury -69922-05-04 10:33 J -23817464.16 -23817464.06 -23817463.95 0.2714 0.0719

Mercury -69919-10-30 06:28 J -23816189.36 -23816189.23 -23816189.10 0.2620 0.1560

Mercury -69915-04-27 10:33 J -23814914.10 -23814914.06 -23814914.02 0.2708 0.2473

Mercury -69909-05-06 04:18 J -23812713.40 -23812713.32 -23812713.24 0.2716 0.1856

Mercury -69902-04-30 04:18 J -23810163.42 -23810163.32 -23810163.23 0.2710 0.1339

Mercury -69889-05-01 21:49 J -23805412.70 -23805412.59 -23805412.48 0.2712 0.0198

Mercury -69886-10-28 05:01 J -23804138.46 -23804138.29 -23804138.13 0.2622 0.0395

Mercury -69876-05-04 15:21 J -23800661.96 -23800661.86 -23800661.76 0.2714 0.0948

Mercury -69873-10-30 13:25 J -23799387.05 -23799386.94 -23799386.84 0.2620 0.2014

Mercury -69869-04-27 15:21 J -23798111.92 -23798111.86 -23798111.80 0.2709 0.2242

Mercury -69863-05-07 09:06 J -23795911.19 -23795911.12 -23795911.06 0.2716 0.2086

Mercury -69856-04-30 09:06 J -23793361.22 -23793361.12 -23793361.03 0.2711 0.1109

Mercury -69853-10-25 03:21 J -23792087.43 -23792087.36 -23792087.28 0.2624 0.2325

Venus -69844-09-07 06:57 J -23788848.35 -23788848.21 -23788848.07 0.2673 0.1349

Mercury -69843-05-03 02:37 J -23788610.50 -23788610.39 -23788610.28 0.2712 0.0041

Mercury -69840-10-28 11:45 J -23787336.17 -23787336.01 -23787335.85 0.2622 0.0072

Mercury -69830-05-05 20:09 J -23783859.75 -23783859.66 -23783859.56 0.2714 0.1177

Mercury -69827-10-31 20:09 J -23782584.71 -23782584.66 -23782584.61 0.2620 0.2473

Mercury -69823-04-28 20:09 J -23781309.73 -23781309.66 -23781309.59 0.2709 0.2007

Mercury -69817-05-07 13:54 J -23779108.98 -23779108.92 -23779108.87 0.2716 0.2316

Mercury -69810-05-01 13:54 J -23776559.03 -23776558.92 -23776558.82 0.2711 0.0878

Mercury -69807-10-26 10:18 J -23775285.19 -23775285.07 -23775284.96 0.2624 0.1858

Mercury -69797-05-03 07:25 J -23771808.30 -23771808.19 -23771808.08 0.2713 0.0267

Mercury -69794-10-29 18:42 J -23770533.88 -23770533.72 -23770533.56 0.2622 0.0542

Mercury -69784-05-06 00:57 J -23767057.55 -23767057.46 -23767057.37 0.2715 0.1409

Mercury -69777-04-29 00:57 J -23764507.54 -23764507.46 -23764507.38 0.2709 0.1778

Mercury -69771-05-08 18:42 J -23762306.76 -23762306.72 -23762306.69 0.2716 0.2546

Mercury -69764-05-01 18:28 J -23759756.83 -23759756.73 -23759756.62 0.2711 0.0650

Mercury -69761-10-26 17:01 J -23758482.93 -23758482.79 -23758482.65 0.2624 0.1405

Mercury -69751-05-04 12:13 J -23755006.10 -23755005.99 -23755005.89 0.2713 0.0501

Mercury -69748-10-30 01:25 J -23753731.59 -23753731.44 -23753731.29 0.2621 0.1004

Mercury -69744-04-27 12:13 J -23752456.00 -23752455.99 -23752455.98 0.2707 0.2682

Mercury -69738-05-07 05:45 J -23750255.34 -23750255.26 -23750255.17 0.2715 0.1636

Mercury -69731-04-30 05:45 J -23747705.35 -23747705.26 -23747705.17 0.2709 0.1544

Venus -69730-03-15 02:09 J -23747386.54 -23747386.41 -23747386.28 0.2661 0.1521

Venus -69722-03-12 19:40 J -23744466.75 -23744466.68 -23744466.62 0.2658 0.2370

Mercury -69718-05-02 23:16 J -23742954.63 -23742954.53 -23742954.42 0.2711 0.0425

Mercury -69715-10-27 23:45 J -23741680.66 -23741680.51 -23741680.35 0.2623 0.0946

Mercury -69705-05-04 17:01 J -23738203.90 -23738203.79 -23738203.69 0.2713 0.0731

Mercury -69702-10-31 08:09 J -23736929.29 -23736929.16 -23736929.02 0.2621 0.1458

Mercury -69698-04-28 17:01 J -23735653.84 -23735653.79 -23735653.75 0.2708 0.2451

Mercury -69692-05-07 10:33 J -23733453.13 -23733453.06 -23733452.98 0.2715 0.1869

Mercury -69685-04-30 10:33 J -23730903.15 -23730903.06 -23730902.97 0.2710 0.1315

Mercury -69672-05-03 04:04 J -23726152.43 -23726152.33 -23726152.22 0.2711 0.0207

Mercury -69669-10-28 06:42 J -23724878.38 -23724878.22 -23724878.06 0.2623 0.0490

Mercury -69659-05-05 21:49 J -23721401.69 -23721401.59 -23721401.49 0.2713 0.0961

Mercury -69656-10-31 15:06 J -23720126.98 -23720126.87 -23720126.76 0.2621 0.1914

Mercury -69652-04-28 21:35 J -23718851.65 -23718851.60 -23718851.53 0.2708 0.2222

Mercury -69646-05-08 15:21 J -23716650.92 -23716650.86 -23716650.79 0.2715 0.2096

Mercury -69639-05-01 15:21 J -23714100.96 -23714100.86 -23714100.76 0.2710 0.1082

Mercury -69636-10-26 05:01 J -23712827.35 -23712827.29 -23712827.23 0.2625 0.2423

Mercury -69626-05-04 08:52 J -23709350.23 -23709350.13 -23709350.02 0.2712 0.0110

Mercury -69623-10-29 13:25 J -23708076.10 -23708075.94 -23708075.77 0.2623 0.0053

Mercury -69613-05-06 02:37 J -23704599.49 -23704599.39 -23704599.30 0.2714 0.1191

Mercury -69610-11-01 21:49 J -23703324.65 -23703324.59 -23703324.52 0.2620 0.2374

Mercury -69606-04-30 02:23 J -23702049.47 -23702049.40 -23702049.32 0.2708 0.1993

Venus -69601-09-07 05:30 J -23700092.42 -23700092.27 -23700092.13 0.2675 0.1013

Mercury -69600-05-08 20:09 J -23699848.71 -23699848.66 -23699848.61 0.2715 0.2327

Mercury -69593-05-01 20:09 J -23697298.76 -23697298.66 -23697298.56 0.2710 0.0854

Mercury -69590-10-27 11:59 J -23696025.11 -23696025.00 -23696024.90 0.2625 0.1967

Mercury -69580-05-04 13:40 J -23692548.03 -23692547.93 -23692547.82 0.2712 0.0297

Mercury -69577-10-29 20:23 J -23691273.82 -23691273.65 -23691273.49 0.2623 0.0438

Mercury -69567-05-07 07:25 J -23687797.28 -23687797.19 -23687797.10 0.2714 0.1419

Mercury -69560-04-30 07:25 J -23685247.28 -23685247.19 -23685247.11 0.2708 0.1759

Mercury -69554-05-10 00:57 J -23683046.49 -23683046.46 -23683046.43 0.2716 0.2555

Mercury -69547-05-03 00:57 J -23680496.57 -23680496.46 -23680496.36 0.2710 0.0622

Mercury -69544-10-27 18:42 J -23679222.85 -23679222.72 -23679222.59 0.2625 0.1505

Mercury -69534-05-05 18:28 J -23675745.83 -23675745.73 -23675745.62 0.2712 0.0515

Mercury -69531-10-31 03:06 J -23674471.52 -23674471.37 -23674471.22 0.2622 0.0893

Mercury -69527-04-28 18:28 J -23673195.75 -23673195.73 -23673195.71 0.2706 0.2657

Mercury -69521-05-07 12:13 J -23670995.08 -23670994.99 -23670994.91 0.2714 0.1651

Mercury -69514-05-01 12:13 J -23668445.08 -23668444.99 -23668444.91 0.2709 0.1528

Mercury -69501-05-03 05:45 J -23663694.37 -23663694.26 -23663694.15 0.2711 0.0391

Mercury -69498-10-29 01:40 J -23662420.58 -23662420.43 -23662420.28 0.2624 0.1042

Mercury -69488-05-05 23:16 J -23658943.63 -23658943.53 -23658943.42 0.2712 0.0747

Venus -69487-03-15 05:01 J -23658630.42 -23658630.29 -23658630.17 0.2659 0.1598

Mercury -69485-10-31 09:49 J -23657669.22 -23657669.09 -23657668.95 0.2622 0.1353

Mercury -69481-04-28 23:16 J -23656393.57 -23656393.53 -23656393.48 0.2707 0.2426

Venus -69479-03-12 22:18 J -23655710.64 -23655710.57 -23655710.49 0.2657 0.2289

Mercury -69475-05-08 17:01 J -23654192.87 -23654192.79 -23654192.72 0.2714 0.1877

Mercury -69468-05-01 16:47 J -23651642.89 -23651642.80 -23651642.70 0.2709 0.1298

Mercury -69455-05-04 10:33 J -23646892.17 -23646892.06 -23646891.95 0.2711 0.0162

Mercury -69452-10-29 08:23 J -23645618.31 -23645618.15 -23645617.99 0.2624 0.0580

Mercury -69442-05-07 04:04 J -23642141.43 -23642141.33 -23642141.23 0.2713 0.0974

Mercury -69439-11-01 16:47 J -23640866.91 -23640866.80 -23640866.68 0.2622 0.1819

Mercury -69435-04-30 04:04 J -23639591.39 -23639591.33 -23639591.27 0.2707 0.2197

Mercury -69429-05-08 21:49 J -23637390.66 -23637390.59 -23637390.53 0.2714 0.2109

Mercury -69422-05-02 21:35 J -23634840.69 -23634840.60 -23634840.50 0.2709 0.1070

Mercury -69419-10-27 06:57 J -23633567.26 -23633567.21 -23633567.17 0.2626 0.2519

Mercury -69409-05-04 15:21 J -23630089.97 -23630089.86 -23630089.75 0.2711 0.0077

Mercury -69406-10-30 15:06 J -23628816.03 -23628815.87 -23628815.70 0.2624 0.0140

Mercury -69396-05-07 08:52 J -23625339.22 -23625339.13 -23625339.03 0.2713 0.1205

Mercury -69393-11-01 23:45 J -23624064.59 -23624064.51 -23624064.44 0.2621 0.2276

Mercury -69389-04-30 08:52 J -23622789.20 -23622789.13 -23622789.06 0.2707 0.1965

Mercury -69383-05-10 02:37 J -23620588.45 -23620588.39 -23620588.34 0.2715 0.2337

Mercury -69376-05-03 02:23 J -23618038.50 -23618038.40 -23618038.29 0.2709 0.0840

Mercury -69373-10-27 13:40 J -23616765.03 -23616764.93 -23616764.83 0.2626 0.2066

Mercury -69363-05-05 20:09 J -23613287.77 -23613287.66 -23613287.55 0.2711 0.0300

Mercury -69360-10-30 22:04 J -23612013.74 -23612013.58 -23612013.42 0.2623 0.0335

Venus -69358-09-08 04:18 J -23611336.47 -23611336.32 -23611336.16 0.2677 0.0738

Mercury -69350-05-08 13:40 J -23608537.02 -23608536.93 -23608536.84 0.2713 0.1432

Mercury -69343-05-01 13:40 J -23605987.01 -23605986.93 -23605986.85 0.2707 0.1734

Mercury -69337-05-10 07:25 J -23603786.23 -23603786.19 -23603786.16 0.2715 0.2568

Mercury -69330-05-04 07:11 J -23601236.30 -23601236.20 -23601236.09 0.2709 0.0612

Mercury -69327-10-28 20:23 J -23599962.77 -23599962.65 -23599962.52 0.2625 0.1602

Mercury -69317-05-06 00:57 J -23596485.57 -23596485.46 -23596485.36 0.2711 0.0531

Mercury -69314-11-01 04:47 J -23595211.45 -23595211.30 -23595211.14 0.2623 0.0786

Mercury -69310-04-30 00:42 J -23593935.49 -23593935.47 -23593935.44 0.2706 0.2638

Mercury -69304-05-08 18:28 J -23591734.81 -23591734.73 -23591734.64 0.2713 0.1660

Mercury -69297-05-01 18:28 J -23589184.82 -23589184.73 -23589184.64 0.2708 0.1507

Mercury -69284-05-04 11:59 J -23584434.10 -23584434.00 -23584433.89 0.2710 0.0384

Mercury -69281-10-29 03:21 J -23583160.51 -23583160.36 -23583160.22 0.2625 0.1146

Mercury -69271-05-07 05:45 J -23579683.37 -23579683.26 -23579683.16 0.2712 0.0760

Mercury -69268-11-01 11:45 J -23578409.16 -23578409.01 -23578408.87 0.2623 0.1252

Mercury -69264-04-30 05:30 J -23577133.31 -23577133.27 -23577133.22 0.2706 0.2410

Mercury -69258-05-09 23:16 J -23574932.60 -23574932.53 -23574932.45 0.2713 0.1890

Mercury -69251-05-02 23:16 J -23572382.63 -23572382.53 -23572382.44 0.2708 0.1278

Venus -69244-03-15 08:09 J -23569874.28 -23569874.16 -23569874.04 0.2658 0.1732

Mercury -69238-05-05 16:47 J -23567631.90 -23567631.80 -23567631.69 0.2710 0.0166

Venus -69236-03-13 01:25 J -23566954.53 -23566954.44 -23566954.35 0.2655 0.2171

Mercury -69235-10-30 10:04 J -23566358.24 -23566358.08 -23566357.92 0.2625 0.0690

Mercury -69225-05-07 10:33 J -23562881.16 -23562881.06 -23562880.96 0.2712 0.0990

Mercury -69222-11-02 18:28 J -23561606.85 -23561606.73 -23561606.61 0.2623 0.1705

Mercury -69218-05-01 10:18 J -23560331.13 -23560331.07 -23560331.00 0.2706 0.2176

Mercury -69212-05-10 04:04 J -23558130.40 -23558130.33 -23558130.26 0.2714 0.2116

Mercury -69205-05-03 04:04 J -23555580.43 -23555580.33 -23555580.23 0.2708 0.1047

Mercury -69202-10-28 08:37 J -23554307.15 -23554307.14 -23554307.13 0.2627 0.2616

Mercury -69192-05-05 21:35 J -23550829.70 -23550829.60 -23550829.49 0.2710 0.0111

Mercury -69189-10-30 17:01 J -23549555.96 -23549555.79 -23549555.63 0.2625 0.0230

Mercury -69179-05-08 15:21 J -23546078.96 -23546078.86 -23546078.77 0.2712 0.1215

Mercury -69176-11-03 01:25 J -23544804.53 -23544804.44 -23544804.35 0.2622 0.2163

Mercury -69172-05-01 15:06 J -23543528.94 -23543528.87 -23543528.79 0.2706 0.1948

Mercury -69166-05-11 08:52 J -23541328.18 -23541328.13 -23541328.08 0.2714 0.2345

Mercury -69159-05-04 08:52 J -23538778.23 -23538778.13 -23538778.03 0.2709 0.0814

Mercury -69156-10-28 15:21 J -23537504.95 -23537504.86 -23537504.76 0.2627 0.2155

Mercury -69146-05-07 02:23 J -23534027.50 -23534027.40 -23534027.29 0.2710 0.0323

Mercury -69143-10-31 23:45 J -23532753.67 -23532753.51 -23532753.35 0.2624 0.0232

Mercury -69133-05-08 20:09 J -23529276.75 -23529276.66 -23529276.57 0.2712 0.1446

Mercury -69130-11-04 08:09 J -23528002.16 -23528002.16 -23528002.16 0.2622 0.2620

Mercury -69126-05-02 19:54 J -23526726.75 -23526726.67 -23526726.58 0.2707 0.1720

Mercury -69120-05-11 13:40 J -23524525.96 -23524525.93 -23524525.90 0.2714 0.2568

Venus -69115-09-08 03:06 J -23522580.53 -23522580.37 -23522580.21 0.2678 0.0400

Mercury -69113-05-04 13:40 J -23521976.04 -23521975.93 -23521975.83 0.2709 0.0587

Mercury -69110-10-29 22:18 J -23520702.70 -23520702.57 -23520702.45 0.2626 0.1702

Mercury -69100-05-07 07:11 J -23517225.30 -23517225.20 -23517225.09 0.2711 0.0549

Mercury -69097-11-01 06:42 J -23515951.38 -23515951.22 -23515951.07 0.2624 0.0693

Mercury -69093-04-30 07:11 J -23514675.22 -23514675.20 -23514675.18 0.2705 0.2615

Mercury -69087-05-10 00:57 J -23512474.55 -23512474.46 -23512474.38 0.2713 0.1674

Mercury -69080-05-03 00:42 J -23509924.55 -23509924.47 -23509924.38 0.2707 0.1492

Mercury -69067-05-05 18:28 J -23505173.84 -23505173.73 -23505173.62 0.2709 0.0359

Mercury -69064-10-30 05:01 J -23503900.43 -23503900.29 -23503900.15 0.2626 0.1245

Mercury -69054-05-08 11:59 J -23500423.10 -23500423.00 -23500422.89 0.2711 0.0774

Mercury -69051-11-02 13:25 J -23499149.09 -23499148.94 -23499148.79 0.2624 0.1143

Mercury -69047-05-01 11:59 J -23497873.05 -23497873.00 -23497872.95 0.2705 0.2384

Mercury -69041-05-10 05:45 J -23495672.34 -23495672.26 -23495672.19 0.2713 0.1902

Mercury -69034-05-04 05:30 J -23493122.36 -23493122.27 -23493122.17 0.2707 0.1261

Mercury -69021-05-05 23:16 J -23488371.64 -23488371.53 -23488371.42 0.2709 0.0136

Mercury -69018-10-31 11:45 J -23487098.16 -23487098.01 -23487097.85 0.2626 0.0794

Mercury -69008-05-08 16:47 J -23483620.90 -23483620.80 -23483620.70 0.2711 0.0999

Mercury -69005-11-02 20:09 J -23482346.78 -23482346.66 -23482346.53 0.2623 0.1601

Venus -69001-03-15 11:01 J -23481118.16 -23481118.04 -23481117.93 0.2656 0.1812

Mercury -69001-05-01 16:47 J -23481070.86 -23481070.80 -23481070.74 0.2705 0.2159

69TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 69th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-68995-05-11 10:33 J	-23478870.13	-23478870.06	-23478870.00	0.2713	0.2129		
Venus	-68993-03-13 04:18 J	-23478198.42	-23478198.32	-23478198.23	0.2653	0.2073		
Mercury	-68988-05-04 10:18 J	-23476320.17	-23476320.07	-23476319.97	0.2707	0.1032		
Mercury	-68975-05-07 04:04 J	-23471569.44	-23471569.33	-23471569.22	0.2709	0.0113		
Mercury	-68972-10-31 18:42 J	-23470295.88	-23470295.72	-23470295.56	0.2625	0.0338		
Mercury	-68962-05-09 21:35 J	-23466818.69	-23466818.60	-23466818.50	0.2711	0.1229		
Mercury	-68959-11-04 03:06 J	-23465544.47	-23465544.37	-23465544.27	0.2623	0.2049		
Mercury	-68955-05-02 21:35 J	-23464268.68	-23464268.60	-23464268.53	0.2706	0.1927		
Mercury	-68949-05-11 15:21 J	-23462067.92	-23462067.86	-23462067.81	0.2713	0.2354		
Mercury	-68942-05-05 15:06 J	-23459517.97	-23459517.87	-23459517.76	0.2708	0.0806		
Mercury	-68939-10-29 17:16 J	-23458244.86	-23458244.78	-23458244.70	0.2628	0.2259		
Mercury	-68929-05-07 08:52 J	-23454767.24	-23454767.13	-23454767.03	0.2710	0.0333		
Mercury	-68926-11-02 01:25 J	-23453493.60	-23453493.44	-23453493.27	0.2625	0.0128		
Mercury	-68916-05-10 02:23 J	-23450016.49	-23450016.40	-23450016.31	0.2712	0.1455		
Mercury	-68913-11-04 09:49 J	-23448742.13	-23448742.09	-23448742.04	0.2623	0.2510		
Mercury	-68909-05-03 02:23 J	-23447466.48	-23447466.40	-23447466.32	0.2706	0.1699		
Mercury	-68903-05-12 20:09 J	-23445265.69	-23445265.66	-23445265.63	0.2713	0.2583		
Mercury	-68896-05-05 19:54 J	-23442715.77	-23442715.67	-23442715.56	0.2708	0.0577		
Mercury	-68893-10-29 23:59 J	-23441442.62	-23441442.50	-23441442.38	0.2627	0.1800		
Mercury	-68883-05-08 13:40 J	-23437965.04	-23437964.93	-23437964.83	0.2710	0.0558		
Mercury	-68880-11-02 08:23 J	-23436691.31	-23436691.15	-23436690.99	0.2625	0.0582		
Mercury	-68876-05-01 13:25 J	-23435414.96	-23435414.94	-23435414.91	0.2704	0.2594		
Venus	-68872-09-08 02:09 J	-23433824.57	-23433824.41	-23433824.25	0.2680	0.0146		
Mercury	-68870-05-11 07:11 J	-23433214.28	-23433214.20	-23433214.12	0.2712	0.1681		
Mercury	-68863-05-04 07:11 J	-23430664.29	-23430664.20	-23430664.11	0.2706	0.1465		
Mercury	-68850-05-07 00:42 J	-23425913.57	-23425913.47	-23425913.36	0.2708	0.0353		

Mercury -68847-10-31 06:42 J -23424640.36 -23424640.22 -23424640.08 0.2627 0.1349

Mercury -68837-05-08 18:28 J -23421162.84 -23421162.73 -23421162.63 0.2710 0.0785

Mercury -68834-11-03 15:06 J -23419889.02 -23419888.87 -23419888.72 0.2625 0.1040

Mercury -68830-05-02 18:13 J -23418612.79 -23418612.74 -23418612.69 0.2704 0.2368

Mercury -68824-05-11 11:59 J -23416412.07 -23416412.00 -23416411.92 0.2712 0.1907

Mercury -68817-05-04 11:59 J -23413862.10 -23413862.00 -23413861.90 0.2706 0.1238

Mercury -68804-05-07 05:30 J -23409111.37 -23409111.27 -23409111.16 0.2708 0.0143

Mercury -68801-10-31 13:40 J -23407838.09 -23407837.93 -23407837.78 0.2627 0.0892

Mercury -68791-05-09 23:16 J -23404360.63 -23404360.53 -23404360.43 0.2710 0.1014

Mercury -68788-11-03 22:04 J -23403086.72 -23403086.58 -23403086.45 0.2624 0.1491

Mercury -68784-05-02 23:01 J -23401810.60 -23401810.54 -23401810.47 0.2705 0.2138

Mercury -68778-05-12 16:47 J -23399609.86 -23399609.80 -23399609.74 0.2712 0.2133

Mercury -68771-05-05 16:47 J -23397059.90 -23397059.80 -23397059.70 0.2707 0.1011

Venus -68758-03-16 13:54 J -23392362.02 -23392361.92 -23392361.81 0.2654 0.1946

Mercury -68758-05-08 10:18 J -23392309.17 -23392309.07 -23392308.96 0.2709 0.0143

Mercury -68755-11-01 20:23 J -23391035.81 -23391035.65 -23391035.49 0.2626 0.0440

Venus -68750-03-14 07:11 J -23389442.30 -23389442.20 -23389442.09 0.2652 0.1955

Mercury -68745-05-10 04:04 J -23387558.43 -23387558.33 -23387558.24 0.2711 0.1242

Mercury -68742-11-05 04:47 J -23386284.41 -23386284.30 -23386284.19 0.2624 0.1948

Mercury -68738-05-04 03:49 J -23385008.41 -23385008.34 -23385008.26 0.2705 0.1911

Mercury -68732-05-12 21:35 J -23382807.65 -23382807.60 -23382807.55 0.2712 0.2361

Mercury -68725-05-05 21:35 J -23380257.70 -23380257.60 -23380257.50 0.2707 0.0784

Mercury -68722-10-30 18:57 J -23378984.78 -23378984.71 -23378984.64 0.2628 0.2363

Mercury -68712-05-08 15:06 J -23375506.97 -23375506.87 -23375506.76 0.2709 0.0351

Mercury -68709-11-02 03:06 J -23374233.53 -23374233.37 -23374233.20 0.2626 0.0066

Mercury -68699-05-11 08:52 J -23370756.22 -23370756.13 -23370756.04 0.2711 0.1465

Mercury -68696-11-05 11:30 J -23369482.08 -23369482.02 -23369481.95 0.2624 0.2401

Mercury -68692-05-04 08:37 J -23368206.22 -23368206.14 -23368206.05 0.2705 0.1680

Mercury -68686-05-14 02:23 J -23366005.43 -23366005.40 -23366005.37 0.2713 0.2586

Mercury -68679-05-07 02:23 J -23363455.51 -23363455.40 -23363455.30 0.2707 0.0556

Mercury -68676-10-31 01:40 J -23362182.54 -23362182.43 -23362182.32 0.2628 0.1912

Mercury -68666-05-09 19:54 J -23358704.77 -23358704.67 -23358704.56 0.2709 0.0571

Mercury -68663-11-03 10:04 J -23357431.24 -23357431.08 -23357430.92 0.2626 0.0468

Mercury -68659-05-02 19:54 J -23356154.70 -23356154.67 -23356154.64 0.2703 0.2575

Mercury -68653-05-11 13:40 J -23353954.02 -23353953.93 -23353953.85 0.2711 0.1693

Mercury -68646-05-05 13:25 J -23351404.03 -23351403.94 -23351403.85 0.2705 0.1456

Mercury -68633-05-07 07:11 J -23346653.31 -23346653.20 -23346653.09 0.2707 0.0328

Mercury -68630-11-01 08:37 J -23345380.28 -23345380.14 -23345380.01 0.2628 0.1456

Venus -68629-09-08 01:11 J -23345068.61 -23345068.45 -23345068.29 0.2682 0.0172

Mercury -68620-05-10 00:42 J -23341902.57 -23341902.47 -23341902.36 0.2709 0.0797

Mercury -68617-11-03 16:47 J -23340628.95 -23340628.80 -23340628.65 0.2625 0.0921

Mercury -68613-05-03 00:42 J -23339352.52 -23339352.47 -23339352.42 0.2704 0.2346

Mercury -68607-05-12 18:28 J -23337151.81 -23337151.73 -23337151.66 0.2711 0.1919

Mercury -68600-05-05 18:13 J -23334601.83 -23334601.74 -23334601.64 0.2706 0.1225

Mercury -68587-05-08 11:59 J -23329851.11 -23329851.00 -23329850.89 0.2708 0.0108

Mercury -68584-11-01 15:21 J -23328578.01 -23328577.86 -23328577.71 0.2628 0.0996

Mercury -68574-05-11 05:30 J -23325100.37 -23325100.27 -23325100.17 0.2710 0.1022

Mercury -68571-11-04 23:45 J -23323826.65 -23323826.51 -23323826.37 0.2625 0.1379

Mercury -68567-05-04 05:30 J -23322550.34 -23322550.27 -23322550.21 0.2704 0.2116

Mercury -68561-05-12 23:01 J -23320349.60 -23320349.54 -23320349.47 0.2711 0.2145

Mercury -68554-05-06 23:01 J -23317799.64 -23317799.54 -23317799.44 0.2706 0.1000

Mercury -68541-05-08 16:47 J -23313048.91 -23313048.80 -23313048.69 0.2708 0.0136

Mercury -68538-11-02 22:18 J -23311775.73 -23311775.57 -23311775.42 0.2627 0.0547

Mercury -68528-05-11 10:18 J -23308298.16 -23308298.07 -23308297.97 0.2710 0.1246

Mercury -68525-11-05 06:28 J -23307024.34 -23307024.23 -23307024.11 0.2625 0.1840

Mercury -68521-05-04 10:18 J -23305748.15 -23305748.07 -23305747.99 0.2704 0.1888

Venus -68515-03-16 16:47 J -23303605.90 -23303605.80 -23303605.70 0.2653 0.2045

Mercury -68515-05-14 03:49 J -23303547.39 -23303547.34 -23303547.29 0.2712 0.2368

Mercury -68508-05-07 03:49 J -23300997.44 -23300997.34 -23300997.23 0.2706 0.0772

Venus -68507-03-14 10:04 J -23300686.20 -23300686.08 -23300685.97 0.2650 0.1850

Mercury -68505-10-30 20:37 J -23299724.69 -23299724.64 -23299724.59 0.2629 0.2464

Mercury -68495-05-09 21:35 J -23296246.71 -23296246.60 -23296246.50 0.2708 0.0357

Mercury -68492-11-03 05:01 J -23294973.45 -23294973.29 -23294973.13 0.2627 0.0095

Mercury -68482-05-12 15:06 J -23291495.96 -23291495.87 -23291495.78 0.2710 0.1473

Mercury -68479-11-06 13:25 J -23290222.02 -23290221.94 -23290221.86 0.2625 0.2288

Mercury -68475-05-05 15:06 J -23288945.96 -23288945.87 -23288945.79 0.2704 0.1662

Mercury -68469-05-14 08:37 J -23286745.16 -23286745.14 -23286745.11 0.2712 0.2593

Mercury -68462-05-08 08:37 J -23284195.24 -23284195.14 -23284195.03 0.2706 0.0549

Mercury -68459-11-01 03:35 J -23282922.46 -23282922.35 -23282922.25 0.2629 0.2010

Mercury -68449-05-10 02:23 J -23279444.51 -23279444.40 -23279444.30 0.2708 0.0585

Mercury -68446-11-04 11:45 J -23278171.17 -23278171.01 -23278170.85 0.2627 0.0360

Mercury -68442-05-04 02:09 J -23276894.44 -23276894.41 -23276894.38 0.2702 0.2557

Mercury -68436-05-12 19:54 J -23274693.75 -23274693.67 -23274693.59 0.2710 0.1700

Mercury -68429-05-05 19:54 J -23272143.76 -23272143.67 -23272143.58 0.2705 0.1433

Mercury -68416-05-08 13:25 J -23267393.04 -23267392.94 -23267392.83 0.2707 0.0324

Mercury -68413-11-01 10:18 J -23266120.20 -23266120.07 -23266119.94 0.2629 0.1557

Mercury -68403-05-11 07:11 J -23262642.31 -23262642.20 -23262642.10 0.2709 0.0808

Mercury -68400-11-04 18:42 J -23261368.88 -23261368.72 -23261368.57 0.2626 0.0815

Mercury -68396-05-04 06:57 J -23260092.26 -23260092.21 -23260092.15 0.2703 0.2328

Mercury -68390-05-14 00:42 J -23257891.54 -23257891.47 -23257891.39 0.2710 0.1926

Venus -68386-09-09 00:28 J -23256312.64 -23256312.48 -23256312.32 0.2684 0.0446

Mercury -68383-05-07 00:42 J -23255341.57 -23255341.47 -23255341.38 0.2705 0.1210

Mercury -68370-05-09 18:13 J -23250590.85 -23250590.74 -23250590.63 0.2707 0.0108

Mercury -68367-11-02 17:01 J -23249317.93 -23249317.79 -23249317.64 0.2628 0.1111

Mercury -68357-05-11 11:59 J -23245840.10 -23245840.00 -23245839.90 0.2709 0.1035

Mercury -68354-11-06 01:25 J -23244566.58 -23244566.44 -23244566.30 0.2626 0.1266

Mercury -68350-05-05 11:45 J -23243290.07 -23243290.01 -23243289.94 0.2703 0.2102

Mercury -68344-05-14 05:30 J -23241089.33 -23241089.27 -23241089.21 0.2711 0.2147

Mercury -68337-05-07 05:30 J -23238539.37 -23238539.27 -23238539.17 0.2705 0.0980

Mercury -68324-05-09 23:01 J -23233788.65 -23233788.54 -23233788.43 0.2707 0.0148

Mercury -68321-11-02 23:59 J -23232515.66 -23232515.50 -23232515.35 0.2628 0.0662

Mercury -68311-05-12 16:47 J -23229037.90 -23229037.80 -23229037.71 0.2709 0.1259

Mercury -68308-11-06 08:09 J -23227764.28 -23227764.16 -23227764.03 0.2626 0.1716

Mercury -68304-05-05 16:33 J -23226487.88 -23226487.81 -23226487.73 0.2703 0.1874

Mercury -68298-05-15 10:18 J -23224287.12 -23224287.07 -23224287.02 0.2711 0.2374

Mercury -68291-05-08 10:18 J -23221737.18 -23221737.07 -23221736.97 0.2705 0.0756

Mercury -68288-10-31 22:33 J -23220464.59 -23220464.56 -23220464.53 0.2630 0.2558

Mercury -68278-05-11 03:49 J -23216986.44 -23216986.34 -23216986.23 0.2707 0.0370

Mercury -68275-11-04 06:42 J -23215713.38 -23215713.22 -23215713.06 0.2628 0.0205

Venus -68272-03-16 19:40 J -23214849.77 -23214849.68 -23214849.59 0.2651 0.2157

Mercury -68265-05-12 21:35 J -23212235.69 -23212235.60 -23212235.51 0.2709 0.1484

Venus -68264-03-14 12:42 J -23211930.09 -23211929.97 -23211929.85 0.2649 0.1736

Mercury -68262-11-07 15:06 J -23210961.96 -23210961.87 -23210961.78 0.2625 0.2165

Mercury -68258-05-06 21:21 J -23209685.69 -23209685.61 -23209685.52 0.2704 0.1647

Mercury -68252-05-15 15:06 J -23207484.90 -23207484.87 -23207484.84 0.2711 0.2595

Mercury -68245-05-08 15:06 J -23204934.98 -23204934.87 -23204934.77 0.2706 0.0528

Mercury -68242-11-02 05:16 J -23203662.37 -23203662.28 -23203662.18 0.2630 0.2111

Mercury -68232-05-11 08:37 J -23200184.24 -23200184.14 -23200184.03 0.2708 0.0592

Mercury -68229-11-04 13:40 J -23198911.09 -23198910.93 -23198910.77 0.2628 0.0258

Mercury -68225-05-04 08:37 J -23197634.18 -23197634.14 -23197634.11 0.2702 0.2537

Mercury -68219-05-14 02:23 J -23195433.49 -23195433.40 -23195433.32 0.2710 0.1709

Mercury -68216-11-07 21:49 J -23194159.59 -23194159.59 -23194159.58 0.2625 0.2623

Mercury -68212-05-07 02:09 J -23192883.50 -23192883.41 -23192883.32 0.2704 0.1421

Mercury -68199-05-09 19:54 J -23188132.78 -23188132.67 -23188132.56 0.2706 0.0306

Mercury -68196-11-02 11:59 J -23186860.12 -23186860.00 -23186859.87 0.2630 0.1667

Mercury -68186-05-12 13:25 J -23183382.04 -23183381.94 -23183381.83 0.2708 0.0820

Mercury -68183-11-05 20:23 J -23182108.81 -23182108.65 -23182108.49 0.2627 0.0701

Mercury -68179-05-05 13:25 J -23180832.00 -23180831.94 -23180831.89 0.2702 0.2310

Mercury -68173-05-14 07:11 J -23178631.28 -23178631.20 -23178631.13 0.2710 0.1932

Mercury -68166-05-08 06:57 J -23176081.30 -23176081.21 -23176081.11 0.2704 0.1195

Mercury -68153-05-10 00:42 J -23171330.58 -23171330.47 -23171330.36 0.2706 0.0086

Mercury -68150-11-03 18:57 J -23170057.86 -23170057.71 -23170057.57 0.2629 0.1220

Venus -68143-09-08 23:30 J -23167556.67 -23167556.52 -23167556.36 0.2685 0.0732

Mercury -68140-05-12 18:13 J -23166579.84 -23166579.74 -23166579.64 0.2708 0.1042

Mercury -68137-11-06 03:06 J -23165306.51 -23165306.37 -23165306.22 0.2627 0.1152

Mercury -68133-05-05 18:13 J -23164029.81 -23164029.74 -23164029.68 0.2702 0.2084

Mercury -68127-05-15 11:59 J -23161829.07 -23161829.00 -23161828.94 0.2710 0.2159

Mercury -68120-05-08 11:45 J -23159279.11 -23159279.01 -23159278.91 0.2704 0.0969

Mercury -68107-05-11 05:30 J -23154528.38 -23154528.27 -23154528.16 0.2706 0.0157

Mercury -68104-11-04 01:40 J -23153255.58 -23153255.43 -23153255.27 0.2629 0.0767

Mercury -68094-05-13 23:01 J -23149777.63 -23149777.54 -23149777.44 0.2708 0.1269

Mercury -68091-11-07 10:04 J -23148504.21 -23148504.08 -23148503.96 0.2627 0.1598

Mercury -68087-05-06 23:01 J -23147227.62 -23147227.54 -23147227.47 0.2702 0.1859

Mercury -68081-05-15 16:33 J -23145026.85 -23145026.81 -23145026.76 0.2710 0.2380

Mercury -68074-05-09 16:33 J -23142476.91 -23142476.81 -23142476.70 0.2704 0.0742

Mercury -68061-05-11 10:18 J -23137726.18 -23137726.07 -23137725.97 0.2707 0.0379

Mercury -68058-11-05 08:23 J -23136453.31 -23136453.15 -23136452.98 0.2629 0.0321

Mercury -68048-05-14 03:49 J -23132975.43 -23132975.34 -23132975.25 0.2709 0.1490

Mercury -68045-11-07 16:47 J -23131701.90 -23131701.80 -23131701.70 0.2626 0.2050

Mercury -68041-05-07 03:49 J -23130425.43 -23130425.34 -23130425.26 0.2703 0.1634

Mercury -68035-05-16 21:21 J -23128224.63 -23128224.61 -23128224.58 0.2710 0.2603

Venus -68029-03-16 22:18 J -23126093.65 -23126093.57 -23126093.49 0.2650 0.2266

Mercury -68028-05-09 21:21 J -23125674.71 -23125674.61 -23125674.50 0.2705 0.0520

Mercury -68025-11-02 06:57 J -23124402.29 -23124402.21 -23124402.12 0.2631 0.2225

Venus -68021-03-14 15:21 J -23123173.98 -23123173.86 -23123173.74 0.2647 0.1637

Mercury -68015-05-12 15:06 J -23120923.98 -23120923.87 -23120923.77 0.2707 0.0604

Mercury -68012-11-05 15:21 J -23119651.03 -23119650.86 -23119650.70 0.2628 0.0147

Mercury -68008-05-05 14:52 J -23118373.91 -23118373.88 -23118373.84 0.2701 0.2519

Mercury -68002-05-15 08:37 J -23116173.22 -23116173.14 -23116173.06 0.2709 0.1713

68TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 68th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-67999-11-08 23:30 J	-23114899.56	-23114899.52	-23114899.47	0.2626	0.2500		
Mercury	-67995-05-08 08:37 J	-23113623.23	-23113623.14	-23113623.05	0.2703	0.1406		
Mercury	-67982-05-11 02:09 J	-23108872.51	-23108872.41	-23108872.30	0.2705	0.0298		
Mercury	-67979-11-03 13:54 J	-23107600.04	-23107599.92	-23107599.81	0.2631	0.1779		
Mercury	-67969-05-12 19:54 J	-23104121.78	-23104121.67	-23104121.57	0.2707	0.0825		
Mercury	-67966-11-06 22:04 J	-23102848.74	-23102848.58	-23102848.42	0.2628	0.0581		
Mercury	-67962-05-06 19:40 J	-23101571.73	-23101571.68	-23101571.62	0.2701	0.2294		
Mercury	-67956-05-15 13:25 J	-23099371.01	-23099370.94	-23099370.87	0.2709	0.1934		
Mercury	-67949-05-08 13:25 J	-23096821.04	-23096820.94	-23096820.85	0.2703	0.1178		
Mercury	-67936-05-11 06:57 J	-23092070.31	-23092070.21	-23092070.10	0.2705	0.0104		
Mercury	-67933-11-03 20:37 J	-23090797.78	-23090797.64	-23090797.50	0.2630	0.1321		
Mercury	-67923-05-14 00:42 J	-23087319.57	-23087319.47	-23087319.37	0.2707	0.1052		
Mercury	-67920-11-07 04:47 J	-23086046.44	-23086046.30	-23086046.15	0.2628	0.1033		
Mercury	-67916-05-07 00:28 J	-23084769.55	-23084769.48	-23084769.41	0.2701	0.2068		
Mercury	-67910-05-16 18:13 J	-23082568.80	-23082568.74	-23082568.68	0.2709	0.2156		
Mercury	-67903-05-09 18:13 J	-23080018.84	-23080018.74	-23080018.64	0.2704	0.0953		
Venus	-67900-09-08 23:01 J	-23078800.69	-23078800.54	-23078800.40	0.2687	0.1006		
Mercury	-67890-05-12 11:45 J	-23075268.11	-23075268.01	-23075267.90	0.2706	0.0181		
Mercury	-67887-11-05 03:21 J	-23073995.51	-23073995.36	-23073995.20	0.2630	0.0880		
Mercury	-67877-05-14 05:30 J	-23070517.37	-23070517.27	-23070517.18	0.2708	0.1275		

Mercury -67874-11-08 11:45 J -23069244.14 -23069244.01 -23069243.88 0.2627 0.1487

Mercury -67870-05-08 05:16 J -23067967.36 -23067967.28 -23067967.20 0.2702 0.1843

Mercury -67864-05-16 23:01 J -23065766.59 -23065766.54 -23065766.49 0.2709 0.2381

Mercury -67857-05-09 23:01 J -23063216.65 -23063216.54 -23063216.44 0.2704 0.0729

Mercury -67844-05-12 16:33 J -23058465.91 -23058465.81 -23058465.70 0.2706 0.0392

Mercury -67841-11-05 10:18 J -23057193.23 -23057193.07 -23057192.91 0.2630 0.0436

Mercury -67831-05-15 10:18 J -23053715.16 -23053715.07 -23053714.98 0.2708 0.1500

Mercury -67828-11-08 18:28 J -23052441.84 -23052441.73 -23052441.62 0.2627 0.1931

Mercury -67824-05-08 10:04 J -23051165.16 -23051165.08 -23051164.99 0.2702 0.1616

Mercury -67818-05-18 03:49 J -23048964.37 -23048964.34 -23048964.31 0.2710 0.2602

Mercury -67811-05-11 03:49 J -23046414.45 -23046414.34 -23046414.24 0.2704 0.0503

Mercury -67808-11-03 08:52 J -23045142.21 -23045142.13 -23045142.06 0.2632 0.2337

Mercury -67798-05-13 21:21 J -23041663.71 -23041663.61 -23041663.50 0.2706 0.0611

Mercury -67795-11-06 17:01 J -23040390.95 -23040390.79 -23040390.63 0.2629 0.0016

Mercury -67791-05-06 21:06 J -23039113.65 -23039113.62 -23039113.58 0.2700 0.2509

Venus -67786-03-18 00:57 J -23037337.53 -23037337.46 -23037337.39 0.2648 0.2370

Mercury -67785-05-15 15:06 J -23036912.96 -23036912.87 -23036912.79 0.2708 0.1719

Mercury -67782-11-10 01:25 J -23035639.51 -23035639.44 -23035639.38 0.2627 0.2377

Venus -67778-03-15 17:59 J -23034417.88 -23034417.75 -23034417.63 0.2646 0.1537

Mercury -67778-05-09 14:52 J -23034362.97 -23034362.88 -23034362.79 0.2702 0.1393

Mercury -67765-05-11 08:37 J -23029612.25 -23029612.14 -23029612.03 0.2704 0.0281

Mercury -67762-11-04 15:35 J -23028339.96 -23028339.85 -23028339.74 0.2631 0.1885

Mercury -67752-05-14 02:09 J -23024861.51 -23024861.41 -23024861.31 0.2706 0.0833

Mercury -67749-11-06 23:45 J -23023588.67 -23023588.51 -23023588.35 0.2629 0.0462

Mercury -67745-05-07 02:09 J -23022311.47 -23022311.41 -23022311.36 0.2700 0.2283

Mercury -67739-05-16 19:54 J -23020110.75 -23020110.67 -23020110.60 0.2708 0.1943

Mercury -67732-05-09 19:40 J -23017560.77 -23017560.68 -23017560.58 0.2703 0.1168

Mercury -67719-05-12 13:25 J -23012810.05 -23012809.94 -23012809.83 0.2704 0.0090

Mercury -67716-11-04 22:18 J -23011537.70 -23011537.57 -23011537.43 0.2631 0.1444

Mercury -67706-05-15 06:57 J -23008059.31 -23008059.21 -23008059.11 0.2706 0.1055

Mercury -67703-11-08 06:42 J -23006786.38 -23006786.22 -23006786.07 0.2629 0.0912

Mercury -67699-05-08 06:57 J -23005509.28 -23005509.21 -23005509.14 0.2701 0.2056

Mercury -67693-05-17 00:42 J -23003308.54 -23003308.47 -23003308.41 0.2708 0.2165

Mercury -67686-05-11 00:28 J -23000758.58 -23000758.48 -23000758.38 0.2703 0.0945

Mercury -67673-05-12 18:13 J -22996007.85 -22996007.74 -22996007.64 0.2705 0.0186

Mercury -67670-11-06 05:16 J -22994735.43 -22994735.28 -22994735.13 0.2631 0.0995

Mercury -67660-05-15 11:45 J -22991257.10 -22991257.01 -22991256.91 0.2707 0.1277

Venus -67657-09-08 22:18 J -22990044.71 -22990044.57 -22990044.43 0.2689 0.1285

Mercury -67657-11-08 13:25 J -22989984.08 -22989983.94 -22989983.80 0.2628 0.1355

Mercury -67653-05-08 11:45 J -22988707.09 -22988707.01 -22988706.93 0.2701 0.1826

Mercury -67647-05-18 05:16 J -22986506.32 -22986506.28 -22986506.23 0.2709 0.2386

Mercury -67640-05-11 05:16 J -22983956.38 -22983956.28 -22983956.17 0.2703 0.0718

Mercury -67627-05-13 23:01 J -22979205.65 -22979205.54 -22979205.44 0.2705 0.0400

Mercury -67624-11-06 11:59 J -22977933.16 -22977933.00 -22977932.84 0.2631 0.0547

Mercury -67614-05-16 16:33 J -22974454.90 -22974454.81 -22974454.72 0.2707 0.1498

Mercury -67611-11-09 20:23 J -22973181.77 -22973181.65 -22973181.54 0.2628 0.1809

Mercury -67607-05-09 16:33 J -22971904.90 -22971904.81 -22971904.73 0.2701 0.1604

Mercury -67601-05-18 10:04 J -22969704.10 -22969704.08 -22969704.05 0.2709 0.2605

Mercury -67594-05-12 10:04 J -22967154.18 -22967154.08 -22967153.97 0.2703 0.0494

Mercury -67591-11-04 10:33 J -22965882.11 -22965882.06 -22965882.00 0.2633 0.2438

Mercury -67581-05-14 03:49 J -22962403.45 -22962403.34 -22962403.24 0.2705 0.0622

Mercury -67578-11-07 18:42 J -22961130.88 -22961130.72 -22961130.55 0.2630 0.0120

Mercury -67574-05-08 03:35 J -22959853.39 -22959853.35 -22959853.31 0.2699 0.2491

Mercury -67568-05-16 21:21 J -22957652.69 -22957652.61 -22957652.53 0.2707 0.1723

Mercury -67565-11-10 03:06 J -22956379.45 -22956379.37 -22956379.29 0.2628 0.2252

Mercury -67561-05-09 21:21 J -22955102.71 -22955102.61 -22955102.52 0.2701 0.1379

Mercury -67548-05-12 14:52 J -22950351.99 -22950351.88 -22950351.77 0.2703 0.0274

Mercury -67545-11-04 17:30 J -22949079.88 -22949079.77 -22949079.67 0.2632 0.1997

Venus -67543-03-18 03:35 J -22948581.40 -22948581.35 -22948581.29 0.2647 0.2478

Venus -67535-03-15 20:37 J -22945661.78 -22945661.64 -22945661.51 0.2645 0.1423

Mercury -67535-05-15 08:37 J -22945601.25 -22945601.14 -22945601.04 0.2706 0.0843

Mercury -67532-11-08 01:40 J -22944328.59 -22944328.43 -22944328.27 0.2630 0.0347

Mercury -67528-05-08 08:23 J -22943051.21 -22943051.15 -22943051.09 0.2699 0.2263

Mercury -67522-05-18 02:09 J -22940850.48 -22940850.41 -22940850.34 0.2708 0.1945

Mercury -67515-05-11 02:09 J -22938300.51 -22938300.41 -22938300.32 0.2702 0.1160

Mercury -67502-05-13 19:40 J -22933549.79 -22933549.68 -22933549.57 0.2704 0.0061

Mercury -67499-11-06 00:13 J -22932277.62 -22932277.49 -22932277.36 0.2632 0.1555

Mercury -67489-05-15 13:25 J -22928799.04 -22928798.94 -22928798.84 0.2706 0.1064

Mercury -67486-11-09 08:23 J -22927526.31 -22927526.15 -22927526.00 0.2629 0.0788

Mercury -67482-05-09 13:11 J -22926249.02 -22926248.95 -22926248.88 0.2700 0.2040

Mercury -67476-05-18 06:57 J -22924048.27 -22924048.21 -22924048.15 0.2708 0.2165

Mercury -67469-05-11 06:57 J -22921498.32 -22921498.21 -22921498.11 0.2702 0.0934

Mercury -67456-05-14 00:28 J -22916747.59 -22916747.48 -22916747.37 0.2704 0.0182

Mercury -67453-11-06 06:57 J -22915475.36 -22915475.21 -22915475.06 0.2632 0.1114

Mercury -67443-05-16 18:13 J -22911996.84 -22911996.74 -22911996.65 0.2706 0.1285

Mercury -67440-11-09 15:06 J -22910724.01 -22910723.87 -22910723.72 0.2629 0.1236

Mercury -67436-05-09 17:59 J -22909446.83 -22909446.75 -22909446.67 0.2700 0.1818

Mercury -67430-05-19 11:45 J -22907246.06 -22907246.01 -22907245.96 0.2708 0.2384

Mercury -67423-05-12 11:45 J -22904696.12 -22904696.01 -22904695.91 0.2702 0.0713

Venus -67414-09-09 21:35 J -22901288.73 -22901288.60 -22901288.47 0.2690 0.1539

Mercury -67410-05-15 05:16 J -22899945.38 -22899945.28 -22899945.17 0.2704 0.0405

Mercury -67407-11-07 13:40 J -22898673.08 -22898672.93 -22898672.77 0.2631 0.0667

Mercury -67397-05-16 23:01 J -22895194.63 -22895194.54 -22895194.45 0.2706 0.1508

Mercury -67394-11-10 22:04 J -22893921.71 -22893921.58 -22893921.46 0.2629 0.1677

Mercury -67390-05-10 22:47 J -22892644.64 -22892644.55 -22892644.46 0.2701 0.1592

Mercury -67384-05-19 16:33 J -22890443.84 -22890443.81 -22890443.78 0.2708 0.2606

Mercury -67377-05-12 16:33 J -22887893.92 -22887893.81 -22887893.71 0.2703 0.0491

Mercury -67374-11-05 12:28 J -22886622.02 -22886621.98 -22886621.94 0.2634 0.2547

Mercury -67364-05-15 10:04 J -22883143.18 -22883143.08 -22883142.97 0.2704 0.0622

Mercury -67361-11-07 20:37 J -22881870.80 -22881870.64 -22881870.48 0.2631 0.0226

Mercury -67357-05-08 09:49 J -22880593.13 -22880593.09 -22880593.04 0.2698 0.2475

Mercury -67351-05-18 03:49 J -22878392.43 -22878392.34 -22878392.26 0.2706 0.1730

Mercury -67348-11-11 04:47 J -22877119.39 -22877119.30 -22877119.21 0.2629 0.2125

Mercury -67344-05-11 03:35 J -22875842.44 -22875842.35 -22875842.26 0.2701 0.1368

Mercury -67331-05-13 21:21 J -22871091.72 -22871091.61 -22871091.51 0.2703 0.0272

Mercury -67328-11-05 19:11 J -22869819.79 -22869819.70 -22869819.60 0.2633 0.2106

Mercury -67318-05-16 14:52 J -22866340.98 -22866340.88 -22866340.78 0.2705 0.0846

Mercury -67315-11-09 03:21 J -22865068.52 -22865068.36 -22865068.20 0.2631 0.0226

Mercury -67311-05-09 14:37 J -22863790.94 -22863790.89 -22863790.83 0.2699 0.2254

Mercury -67305-05-18 08:23 J -22861590.22 -22861590.15 -22861590.07 0.2707 0.1949

Mercury -67302-11-12 11:30 J -22860317.05 -22860317.02 -22860316.98 0.2628 0.2571

Venus -67300-03-18 05:59 J -22859825.27 -22859825.25 -22859825.21 0.2645 0.2585

Mercury -67298-05-12 08:23 J -22859040.25 -22859040.15 -22859040.05 0.2701 0.1141

Venus -67292-03-15 23:01 J -22856905.68 -22856905.54 -22856905.41 0.2643 0.1336

Mercury -67285-05-14 02:09 J -22854289.52 -22854289.41 -22854289.30 0.2703 0.0075

Mercury -67282-11-07 01:54 J -22853017.54 -22853017.42 -22853017.29 0.2633 0.1668

Mercury -67272-05-16 19:40 J -22849538.78 -22849538.68 -22849538.58 0.2705 0.1066

Mercury -67269-11-09 10:04 J -22848266.23 -22848266.08 -22848265.92 0.2630 0.0673

Mercury -67265-05-09 19:25 J -22846988.76 -22846988.69 -22846988.62 0.2699 0.2030

Mercury -67259-05-19 13:11 J -22844788.01 -22844787.95 -22844787.88 0.2707 0.2169

Mercury -67252-05-12 13:11 J -22842238.05 -22842237.95 -22842237.85 0.2701 0.0922

Mercury -67239-05-15 06:57 J -22837487.32 -22837487.21 -22837487.10 0.2703 0.0197

Mercury -67236-11-07 08:52 J -22836215.28 -22836215.13 -22836214.99 0.2633 0.1226

Mercury -67226-05-18 00:28 J -22832736.57 -22832736.48 -22832736.38 0.2705 0.1290

Mercury -67223-11-10 17:01 J -22831463.94 -22831463.79 -22831463.65 0.2630 0.1112

Mercury -67219-05-11 00:13 J -22830186.57 -22830186.49 -22830186.41 0.2699 0.1808

Mercury -67213-05-19 17:59 J -22827985.79 -22827985.75 -22827985.70 0.2707 0.2390

Mercury -67206-05-13 17:59 J -22825435.85 -22825435.75 -22825435.64 0.2701 0.0697

Mercury -67193-05-15 11:45 J -22820685.12 -22820685.01 -22820684.91 0.2703 0.0412

Mercury -67190-11-08 15:35 J -22819413.01 -22819412.85 -22819412.70 0.2632 0.0783

Mercury -67186-05-09 11:30 J -22818135.03 -22818135.02 -22818135.02 0.2697 0.2688

Mercury -67180-05-18 05:16 J -22815934.37 -22815934.28 -22815934.19 0.2705 0.1511

Venus -67179-09-12 06:57 J -22815452.22 -22815452.21 -22815452.19 0.2689 0.2673

Mercury -67177-11-10 23:45 J -22814661.64 -22814661.51 -22814661.38 0.2630 0.1555

Mercury -67173-05-11 05:01 J -22813384.37 -22813384.29 -22813384.20 0.2700 0.1584

Venus -67171-09-09 21:21 J -22812532.73 -22812532.61 -22812532.50 0.2692 0.1798

Mercury -67167-05-20 22:47 J -22811183.57 -22811183.55 -22811183.52 0.2707 0.2610

Mercury -67160-05-13 22:47 J -22808633.65 -22808633.55 -22808633.44 0.2702 0.0477

Mercury -67147-05-16 16:33 J -22803882.92 -22803882.81 -22803882.71 0.2704 0.0635

Mercury -67144-11-08 22:18 J -22802610.73 -22802610.57 -22802610.41 0.2632 0.0344

Mercury -67140-05-09 16:18 J -22801332.86 -22801332.82 -22801332.78 0.2698 0.2465

Mercury -67134-05-19 10:04 J -22799132.16 -22799132.08 -22799132.00 0.2706 0.1729

Mercury -67131-11-12 06:28 J -22797859.33 -22797859.23 -22797859.12 0.2629 0.2000

Mercury -67127-05-12 10:04 J -22796582.18 -22796582.08 -22796581.99 0.2700 0.1360

Mercury -67114-05-15 03:35 J -22791831.46 -22791831.35 -22791831.24 0.2702 0.0254

Mercury -67111-11-06 20:52 J -22790559.71 -22790559.63 -22790559.54 0.2634 0.2228

Mercury -67101-05-16 21:21 J -22787080.72 -22787080.61 -22787080.51 0.2704 0.0854

Mercury -67098-11-10 05:01 J -22785808.45 -22785808.29 -22785808.13 0.2632 0.0107

Mercury -67094-05-10 21:06 J -22784530.68 -22784530.62 -22784530.56 0.2698 0.2239

Mercury -67088-05-19 14:52 J -22782329.95 -22782329.88 -22782329.81 0.2706 0.1948

Mercury -67085-11-12 13:25 J -22781057.00 -22781056.94 -22781056.88 0.2629 0.2439

Mercury -67081-05-12 14:52 J -22779779.98 -22779779.88 -22779779.79 0.2700 0.1139

Mercury -67068-05-15 08:23 J -22775029.26 -22775029.15 -22775029.04 0.2702 0.0056

Mercury -67065-11-07 03:49 J -22773757.46 -22773757.34 -22773757.22 0.2634 0.1782

Mercury -67055-05-18 02:09 J -22770278.51 -22770278.41 -22770278.31 0.2704 0.1076

Mercury -67052-11-10 11:59 J -22769006.16 -22769006.00 -22769005.85 0.2631 0.0543

Venus -67049-03-16 01:25 J -22768149.58 -22768149.44 -22768149.30 0.2642 0.1213

Mercury -67048-05-11 01:54 J -22767728.49 -22767728.42 -22767728.35 0.2698 0.2016

Mercury -67042-05-20 19:40 J -22765527.74 -22765527.68 -22765527.62 0.2706 0.2167

Mercury -67035-05-13 19:40 J -22762977.79 -22762977.68 -22762977.58 0.2701 0.0913

Mercury -67022-05-16 13:11 J -22758227.06 -22758226.95 -22758226.84 0.2703 0.0196

Mercury -67019-11-08 10:33 J -22756955.20 -22756955.06 -22756954.92 0.2634 0.1338

Mercury -67009-05-18 06:57 J -22753476.31 -22753476.21 -22753476.12 0.2705 0.1293

Mercury -67006-11-11 18:42 J -22752203.87 -22752203.72 -22752203.57 0.2631 0.0987

Mercury -67002-05-12 06:42 J -22750926.30 -22750926.22 -22750926.14 0.2699 0.1790

67TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 67th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-66996-05-21 00:28 J	-22748725.53	-22748725.48	-22748725.43	0.2706	0.2387		
Mercury	-66989-05-14 00:28 J	-22746175.59	-22746175.48	-22746175.38	0.2701	0.0693		
Mercury	-66976-05-16 17:59 J	-22741424.86	-22741424.75	-22741424.64	0.2703	0.0416		
Mercury	-66973-11-08 17:30 J	-22740152.93	-22740152.77	-22740152.62	0.2633	0.0903		
Mercury	-66969-05-09 17:45 J	-22738874.77	-22738874.76	-22738874.75	0.2697	0.2674		
Mercury	-66963-05-19 11:45 J	-22736674.10	-22736674.01	-22736673.93	0.2705	0.1514		
Mercury	-66960-11-12 01:25 J	-22735401.57	-22735401.44	-22735401.30	0.2631	0.1433		
Mercury	-66956-05-12 11:30 J	-22734124.11	-22734124.02	-22734123.93	0.2699	0.1568		
Mercury	-66950-05-22 05:16 J	-22731923.31	-22731923.28	-22731923.25	0.2707	0.2602		
Mercury	-66943-05-15 05:16 J	-22729373.39	-22729373.28	-22729373.18	0.2701	0.0469		
Venus	-66936-09-12 06:42 J	-22726696.29	-22726696.22	-22726696.16	0.2691	0.2421		
Mercury	-66930-05-17 22:47 J	-22724622.65	-22724622.55	-22724622.44	0.2703	0.0636		
Venus	-66928-09-09 20:52 J	-22723776.73	-22723776.63	-22723776.52	0.2693	0.2039		
Mercury	-66927-11-10 00:13 J	-22723350.65	-22723350.49	-22723350.33	0.2633	0.0467		

Mercury -66923-05-10 22:33 J -22722072.60 -22722072.56 -22722072.52 0.2697 0.2450

Mercury -66917-05-19 16:33 J -22719871.90 -22719871.81 -22719871.73 0.2705 0.1733

Mercury -66914-11-13 08:23 J -22718599.26 -22718599.15 -22718599.04 0.2630 0.1870

Mercury -66910-05-13 16:18 J -22717321.91 -22717321.82 -22717321.73 0.2699 0.1346

Mercury -66897-05-15 10:04 J -22712571.19 -22712571.08 -22712570.98 0.2701 0.0255

Mercury -66894-11-07 22:47 J -22711299.62 -22711299.55 -22711299.47 0.2635 0.2334

Mercury -66884-05-18 03:35 J -22707820.45 -22707820.35 -22707820.25 0.2703 0.0858

Mercury -66881-11-10 06:57 J -22706548.37 -22706548.21 -22706548.05 0.2632 0.0026

Mercury -66877-05-11 03:21 J -22705270.42 -22705270.36 -22705270.30 0.2697 0.2229

Mercury -66871-05-20 21:21 J -22703069.69 -22703069.61 -22703069.54 0.2705 0.1953

Mercury -66868-11-13 15:06 J -22701796.95 -22701796.87 -22701796.79 0.2630 0.2308

Mercury -66864-05-13 21:06 J -22700519.72 -22700519.62 -22700519.52 0.2699 0.1123

Mercury -66851-05-16 14:52 J -22695768.99 -22695768.88 -22695768.78 0.2701 0.0093

Mercury -66848-11-08 05:30 J -22694497.38 -22694497.27 -22694497.15 0.2635 0.1899

Mercury -66838-05-19 08:23 J -22691018.25 -22691018.15 -22691018.05 0.2703 0.1073

Mercury -66835-11-11 13:40 J -22689746.09 -22689745.93 -22689745.77 0.2632 0.0421

Mercury -66831-05-12 08:09 J -22688468.23 -22688468.16 -22688468.09 0.2697 0.2006

Mercury -66825-05-21 02:09 J -22686267.48 -22686267.41 -22686267.35 0.2705 0.2171

Mercury -66818-05-15 01:54 J -22683717.52 -22683717.42 -22683717.32 0.2700 0.0903

Venus -66806-03-17 03:35 J -22679393.49 -22679393.35 -22679393.21 0.2641 0.1129

Mercury -66805-05-16 19:40 J -22678966.79 -22678966.68 -22678966.58 0.2702 0.0221

Mercury -66802-11-09 12:28 J -22677695.12 -22677694.98 -22677694.85 0.2634 0.1464

Mercury -66792-05-19 13:11 J -22674216.04 -22674215.95 -22674215.85 0.2704 0.1296

Mercury -66789-11-11 20:23 J -22672943.80 -22672943.65 -22672943.49 0.2632 0.0858

Mercury -66785-05-12 12:57 J -22671666.04 -22671665.96 -22671665.88 0.2698 0.1783

Mercury -66779-05-22 06:42 J -22669465.26 -22669465.22 -22669465.17 0.2706 0.2388

Mercury -66772-05-15 06:42 J -22666915.32 -22666915.22 -22666915.11 0.2700 0.0680

Mercury -66759-05-18 00:28 J -22662164.59 -22662164.48 -22662164.38 0.2702 0.0428

Mercury -66756-11-09 19:11 J -22660892.85 -22660892.70 -22660892.55 0.2634 0.1028

Mercury -66752-05-11 00:13 J -22659614.51 -22659614.49 -22659614.48 0.2696 0.2661

Mercury -66746-05-20 17:59 J -22657413.84 -22657413.75 -22657413.66 0.2704 0.1511

Mercury -66743-11-13 03:21 J -22656141.50 -22656141.36 -22656141.22 0.2632 0.1297

Mercury -66739-05-13 17:45 J -22654863.84 -22654863.76 -22654863.67 0.2698 0.1561

Mercury -66733-05-22 11:30 J -22652663.04 -22652663.02 -22652662.99 0.2706 0.2606

Mercury -66726-05-16 11:30 J -22650113.13 -22650113.02 -22650112.91 0.2700 0.0459

Mercury -66713-05-18 05:16 J -22645362.39 -22645362.28 -22645362.18 0.2702 0.0643

Mercury -66710-11-11 01:54 J -22644090.57 -22644090.42 -22644090.26 0.2634 0.0584

Mercury -66706-05-12 05:01 J -22642812.34 -22642812.29 -22642812.25 0.2696 0.2439

Mercury -66700-05-20 22:47 J -22640611.63 -22640611.55 -22640611.47 0.2704 0.1733

Mercury -66697-11-13 10:04 J -22639339.20 -22639339.08 -22639338.96 0.2631 0.1735

Mercury -66693-05-13 22:33 J -22638061.65 -22638061.56 -22638061.46 0.2698 0.1340

Venus -66693-09-12 06:13 J -22637940.33 -22637940.24 -22637940.15 0.2692 0.2154

Venus -66685-09-09 20:52 J -22635020.72 -22635020.63 -22635020.55 0.2695 0.2273

Mercury -66680-05-16 16:18 J -22633310.93 -22633310.82 -22633310.71 0.2701 0.0237

Mercury -66677-11-08 00:42 J -22632039.52 -22632039.47 -22632039.41 0.2636 0.2446

Mercury -66667-05-19 10:04 J -22628560.19 -22628560.08 -22628559.98 0.2703 0.0862

Mercury -66664-11-11 08:52 J -22627288.29 -22627288.13 -22627287.97 0.2633 0.0145

Mercury -66660-05-12 09:49 J -22626010.15 -22626010.09 -22626010.03 0.2696 0.2215

Mercury -66654-05-22 03:35 J -22623809.42 -22623809.35 -22623809.28 0.2705 0.1950

Mercury -66651-11-14 17:01 J -22622536.88 -22622536.79 -22622536.70 0.2631 0.2184

Mercury -66647-05-15 03:21 J -22621259.45 -22621259.36 -22621259.26 0.2699 0.1120

Mercury -66634-05-17 21:06 J -22616508.73 -22616508.62 -22616508.51 0.2701 0.0038

Mercury -66631-11-09 07:25 J -22615237.29 -22615237.19 -22615237.08 0.2636 0.2012

Mercury -66621-05-19 14:52 J -22611757.98 -22611757.88 -22611757.78 0.2703 0.1082

Mercury -66618-11-12 15:35 J -22610486.01 -22610485.85 -22610485.69 0.2633 0.0294

Mercury -66614-05-13 14:37 J -22609207.96 -22609207.89 -22609207.82 0.2697 0.1993

Mercury -66608-05-22 08:23 J -22607007.21 -22607007.15 -22607007.09 0.2705 0.2169

Mercury -66605-11-14 23:45 J -22605734.52 -22605734.51 -22605734.50 0.2631 0.2623

Mercury -66601-05-15 08:09 J -22604457.26 -22604457.16 -22604457.05 0.2699 0.0902

Mercury -66588-05-18 01:54 J -22599706.53 -22599706.42 -22599706.31 0.2701 0.0209

Mercury -66585-11-09 14:09 J -22598435.03 -22598434.91 -22598434.78 0.2635 0.1583

Mercury -66575-05-20 19:40 J -22594955.78 -22594955.68 -22594955.59 0.2703 0.1299

Mercury -66572-11-12 22:18 J -22593683.73 -22593683.57 -22593683.41 0.2633 0.0731

Mercury -66568-05-13 19:25 J -22592405.77 -22592405.69 -22592405.61 0.2697 0.1774

Venus -66563-03-17 05:59 J -22590637.40 -22590637.25 -22590637.10 0.2640 0.1016

Mercury -66562-05-23 13:11 J -22590205.00 -22590204.95 -22590204.90 0.2705 0.2385

Mercury -66555-05-16 12:57 J -22587655.06 -22587654.96 -22587654.85 0.2699 0.0683

Mercury -66542-05-19 06:42 J -22582904.33 -22582904.22 -22582904.11 0.2701 0.0425

Mercury -66539-11-10 21:06 J -22581632.77 -22581632.62 -22581632.48 0.2635 0.1141

Mercury -66535-05-12 06:28 J -22580354.25 -22580354.23 -22580354.22 0.2695 0.2652

Mercury -66529-05-21 00:28 J -22578153.57 -22578153.48 -22578153.39 0.2703 0.1518

Mercury -66526-11-14 05:01 J -22576881.43 -22576881.29 -22576881.14 0.2632 0.1166

Mercury -66522-05-15 00:13 J -22575603.58 -22575603.49 -22575603.40 0.2697 0.1553

Mercury -66516-05-23 17:59 J -22573402.78 -22573402.75 -22573402.72 0.2705 0.2603

Mercury -66509-05-16 17:59 J -22570852.86 -22570852.75 -22570852.65 0.2699 0.0466

Mercury -66496-05-19 11:30 J -22566102.12 -22566102.02 -22566101.91 0.2701 0.0643

Mercury -66493-11-11 03:49 J -22564830.50 -22564830.34 -22564830.19 0.2635 0.0708

Mercury -66489-05-12 11:16 J -22563552.07 -22563552.03 -22563551.99 0.2695 0.2427

Mercury -66483-05-22 05:16 J -22561351.37 -22561351.28 -22561351.20 0.2704 0.1734

Mercury -66480-11-14 11:59 J -22560079.13 -22560079.00 -22560078.88 0.2632 0.1609

Mercury -66476-05-15 05:01 J -22558801.39 -22558801.29 -22558801.20 0.2698 0.1331

Mercury -66463-05-17 22:47 J -22554050.66 -22554050.55 -22554050.45 0.2700 0.0256

Mercury -66460-11-09 02:37 J -22552779.42 -22552779.39 -22552779.36 0.2637 0.2561

Mercury -66450-05-20 16:18 J -22549299.92 -22549299.82 -22549299.72 0.2702 0.0860

Venus -66450-09-13 06:13 J -22549184.35 -22549184.24 -22549184.13 0.2694 0.1935

Mercury -66447-11-12 10:33 J -22548028.22 -22548028.06 -22548027.90 0.2634 0.0273

Mercury -66443-05-13 16:04 J -22546749.89 -22546749.83 -22546749.77 0.2696 0.2204

Venus -66442-09-10 20:37 J -22546264.69 -22546264.64 -22546264.58 0.2696 0.2502

Mercury -66437-05-22 10:04 J -22544549.16 -22544549.08 -22544549.01 0.2704 0.1954

Mercury -66434-11-15 18:42 J -22543276.82 -22543276.72 -22543276.62 0.2632 0.2041

Mercury -66430-05-16 09:49 J -22541999.19 -22541999.09 -22541998.99 0.2698 0.1106

Mercury -66417-05-18 03:35 J -22537248.46 -22537248.35 -22537248.25 0.2700 0.0091

Mercury -66414-11-10 09:21 J -22535977.20 -22535977.11 -22535977.02 0.2637 0.2129

Mercury -66404-05-20 21:06 J -22532497.72 -22532497.62 -22532497.52 0.2702 0.1079

Mercury -66401-11-12 17:16 J -22531225.94 -22531225.78 -22531225.62 0.2634 0.0171

Mercury -66397-05-13 20:52 J -22529947.70 -22529947.63 -22529947.56 0.2696 0.1984

Mercury -66391-05-23 14:52 J -22527746.95 -22527746.88 -22527746.82 0.2704 0.2167

Mercury -66388-11-16 01:25 J -22526474.49 -22526474.44 -22526474.39 0.2631 0.2480

Mercury -66384-05-16 14:37 J -22525196.99 -22525196.89 -22525196.79 0.2698 0.0886

Mercury -66371-05-19 08:23 J -22520446.26 -22520446.15 -22520446.05 0.2700 0.0226

Mercury -66368-11-10 16:04 J -22519174.95 -22519174.83 -22519174.70 0.2636 0.1691

Mercury -66358-05-22 01:54 J -22515695.51 -22515695.42 -22515695.32 0.2702 0.1299

Mercury -66355-11-14 00:13 J -22514423.65 -22514423.49 -22514423.34 0.2634 0.0606

Mercury -66351-05-15 01:40 J -22513145.51 -22513145.43 -22513145.35 0.2696 0.1764

Mercury -66345-05-23 19:40 J -22510944.73 -22510944.68 -22510944.64 0.2704 0.2385

Mercury -66338-05-17 19:25 J -22508394.79 -22508394.69 -22508394.58 0.2698 0.0666

Mercury -66325-05-19 13:11 J -22503644.06 -22503643.95 -22503643.85 0.2700 0.0437

Mercury -66322-11-11 22:47 J -22502372.69 -22502372.55 -22502372.40 0.2636 0.1265

Venus -66320-03-17 08:09 J -22501881.31 -22501881.16 -22501881.01 0.2638 0.0921

Mercury -66318-05-13 12:42 J -22501093.99 -22501093.97 -22501093.95 0.2694 0.2639

Mercury -66312-05-22 06:42 J -22498893.31 -22498893.22 -22498893.13 0.2703 0.1517

Mercury -66309-11-14 06:57 J -22497621.36 -22497621.21 -22497621.06 0.2633 0.1042

Mercury -66305-05-15 06:28 J -22496343.32 -22496343.23 -22496343.14 0.2697 0.1543

Mercury -66299-05-25 00:28 J -22494142.51 -22494142.48 -22494142.46 0.2705 0.2600

Mercury -66292-05-18 00:13 J -22491592.60 -22491592.49 -22491592.38 0.2699 0.0448

Mercury -66279-05-20 17:59 J -22486841.86 -22486841.75 -22486841.65 0.2701 0.0651

Mercury -66276-11-12 05:45 J -22485570.42 -22485570.26 -22485570.11 0.2635 0.0833

Mercury -66272-05-13 17:30 J -22484291.81 -22484291.77 -22484291.72 0.2695 0.2421

Mercury -66266-05-23 11:30 J -22482091.10 -22482091.02 -22482090.94 0.2703 0.1734

Mercury -66263-11-15 13:40 J -22480819.06 -22480818.93 -22480818.80 0.2633 0.1470

Mercury -66259-05-16 11:16 J -22479541.12 -22479541.03 -22479540.93 0.2697 0.1322

Mercury -66246-05-19 05:01 J -22474790.40 -22474790.29 -22474790.18 0.2699 0.0227

Mercury -66233-05-20 22:47 J -22470039.66 -22470039.55 -22470039.45 0.2701 0.0867

Mercury -66230-11-13 12:28 J -22468768.14 -22468767.98 -22468767.82 0.2635 0.0407

Mercury -66226-05-14 22:18 J -22467489.63 -22467489.57 -22467489.50 0.2695 0.2199

Mercury -66220-05-23 16:18 J -22465288.89 -22465288.82 -22465288.74 0.2703 0.1947

Mercury -66217-11-15 20:23 J -22464016.76 -22464016.65 -22464016.54 0.2633 0.1909

Mercury -66213-05-16 16:04 J -22462738.93 -22462738.83 -22462738.73 0.2697 0.1105

Venus -66207-09-13 05:59 J -22460428.38 -22460428.25 -22460428.13 0.2695 0.1676

Mercury -66200-05-19 09:49 J -22457988.20 -22457988.09 -22457987.98 0.2699 0.0012

Mercury -66197-11-10 11:16 J -22456717.11 -22456717.03 -22456716.95 0.2637 0.2247

Mercury -66187-05-22 03:35 J -22453237.45 -22453237.35 -22453237.25 0.2701 0.1084

Mercury -66184-11-13 19:11 J -22451965.86 -22451965.70 -22451965.54 0.2635 0.0044

Mercury -66180-05-15 03:21 J -22450687.44 -22450687.36 -22450687.29 0.2695 0.1982

Mercury -66174-05-24 21:06 J -22448486.68 -22448486.62 -22448486.56 0.2703 0.2165

Mercury -66171-11-17 03:06 J -22447214.44 -22447214.37 -22447214.29 0.2632 0.2339

Mercury -66167-05-17 20:52 J -22445936.73 -22445936.63 -22445936.52 0.2698 0.0885

Mercury -66154-05-20 14:37 J -22441186.00 -22441185.89 -22441185.78 0.2699 0.0210

Mercury -66151-11-11 17:59 J -22439914.87 -22439914.75 -22439914.64 0.2637 0.1818

Mercury -66141-05-22 08:23 J -22436435.25 -22436435.15 -22436435.06 0.2701 0.1300

Mercury -66138-11-15 01:54 J -22435163.58 -22435163.42 -22435163.26 0.2635 0.0468

Mercury -66134-05-16 08:09 J -22433885.25 -22433885.16 -22433885.08 0.2696 0.1756

Mercury -66128-05-25 01:54 J -22431684.47 -22431684.42 -22431684.37 0.2704 0.2379

Mercury -66121-05-18 01:40 J -22429134.53 -22429134.43 -22429134.32 0.2698 0.0669

Mercury -66108-05-20 19:25 J -22424383.80 -22424383.69 -22424383.58 0.2700 0.0427

Mercury -66105-11-12 00:42 J -22423112.60 -22423112.47 -22423112.33 0.2637 0.1385

Mercury -66101-05-13 19:11 J -22421833.72 -22421833.70 -22421833.68 0.2694 0.2632

Mercury -66095-05-23 13:11 J -22419633.04 -22419632.95 -22419632.86 0.2702 0.1515

Mercury -66092-11-15 08:37 J -22418361.29 -22418361.14 -22418360.99 0.2634 0.0902

Mercury -66088-05-16 12:57 J -22417083.05 -22417082.96 -22417082.87 0.2696 0.1535

Mercury -66082-05-26 06:42 J -22414882.25 -22414882.22 -22414882.19 0.2704 0.2593

Venus -66077-03-17 10:18 J -22413125.22 -22413125.07 -22413124.92 0.2637 0.0831

Mercury -66075-05-19 06:28 J -22412332.33 -22412332.23 -22412332.12 0.2698 0.0453

Mercury -66062-05-22 00:13 J -22407581.59 -22407581.49 -22407581.38 0.2700 0.0646

Mercury -66059-11-13 07:25 J -22406310.34 -22406310.19 -22406310.04 0.2636 0.0957

Mercury -66055-05-14 23:59 J -22405031.55 -22405031.50 -22405031.46 0.2694 0.2409

Mercury -66049-05-23 17:59 J -22402830.84 -22402830.75 -22402830.67 0.2702 0.1730

Mercury -66046-11-16 15:35 J -22401558.99 -22401558.85 -22401558.71 0.2634 0.1341

Mercury -66042-05-17 17:45 J -22400280.86 -22400280.76 -22400280.67 0.2696 0.1317

Mercury -66029-05-19 11:16 J -22395530.13 -22395530.03 -22395529.92 0.2698 0.0252

Mercury -66016-05-22 05:01 J -22390779.39 -22390779.29 -22390779.19 0.2700 0.0866

Mercury -66013-11-13 14:09 J -22389508.06 -22389507.91 -22389507.75 0.2636 0.0526

Mercury -66009-05-15 04:47 J -22388229.36 -22388229.30 -22388229.24 0.2694 0.2192

Mercury -66003-05-24 22:47 J -22386028.63 -22386028.55 -22386028.48 0.2702 0.1948

66TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 66th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-66000-11-16 22:18 J	-22384756.69	-22384756.57	-22384756.45	0.2633	0.1771		
Mercury	-65996-05-17 22:33 J	-22383478.66	-22383478.56	-22383478.46	0.2696	0.1097		
Mercury	-65983-05-20 16:18 J	-22378727.93	-22378727.82	-22378727.72	0.2699	0.0115		
Mercury	-65980-11-11 13:11 J	-22377457.02	-22377456.95	-22377456.88	0.2638	0.2365		
Mercury	-65970-05-23 09:49 J	-22373977.19	-22373977.09	-22373976.99	0.2700	0.1080		

Mercury -65967-11-14 21:06 J -22372705.78 -22372705.62 -22372705.46 0.2636 0.0111

Venus -65964-09-13 05:59 J -22371672.38 -22371672.25 -22371672.11 0.2696 0.1464

Mercury -65963-05-16 09:35 J -22371427.17 -22371427.10 -22371427.03 0.2694 0.1967

Mercury -65957-05-25 03:35 J -22369226.42 -22369226.35 -22369226.29 0.2703 0.2164

Mercury -65954-11-18 05:01 J -22367954.37 -22367954.29 -22367954.20 0.2633 0.2209

Mercury -65950-05-19 03:21 J -22366676.47 -22366676.36 -22366676.26 0.2697 0.0879

Mercury -65937-05-20 21:06 J -22361925.73 -22361925.62 -22361925.52 0.2699 0.0240

Mercury -65934-11-12 19:54 J -22360654.78 -22360654.67 -22360654.56 0.2638 0.1940

Mercury -65924-05-23 14:37 J -22357174.98 -22357174.89 -22357174.79 0.2701 0.1297

Mercury -65921-11-15 03:49 J -22355903.50 -22355903.34 -22355903.18 0.2635 0.0341

Mercury -65917-05-16 14:23 J -22354624.98 -22354624.90 -22354624.82 0.2695 0.1750

Mercury -65911-05-26 08:23 J -22352424.20 -22352424.15 -22352424.11 0.2703 0.2377

Mercury -65904-05-19 08:09 J -22349874.27 -22349874.16 -22349874.06 0.2697 0.0658

Mercury -65891-05-22 01:54 J -22345123.53 -22345123.42 -22345123.32 0.2699 0.0444

Mercury -65888-11-13 02:37 J -22343852.52 -22343852.39 -22343852.26 0.2638 0.1514

Mercury -65884-05-15 01:25 J -22342573.46 -22342573.44 -22342573.42 0.2693 0.2622

Mercury -65878-05-24 19:25 J -22340372.78 -22340372.69 -22340372.60 0.2701 0.1510

Mercury -65875-11-16 10:33 J -22339101.22 -22339101.06 -22339100.91 0.2635 0.0767

Mercury -65871-05-17 19:11 J -22337822.79 -22337822.70 -22337822.61 0.2695 0.1530

Mercury -65865-05-26 13:11 J -22335621.98 -22335621.95 -22335621.93 0.2703 0.2589

Mercury -65858-05-20 12:57 J -22333072.07 -22333071.96 -22333071.85 0.2697 0.0445

Mercury -65845-05-22 06:42 J -22328321.33 -22328321.22 -22328321.12 0.2699 0.0656

Mercury -65842-11-14 09:21 J -22327050.26 -22327050.11 -22327049.96 0.2637 0.1083

Mercury -65838-05-16 06:13 J -22325771.29 -22325771.24 -22325771.19 0.2693 0.2402

Venus -65834-03-18 12:13 J -22324369.14 -22324368.99 -22324368.84 0.2636 0.0743

Mercury -65832-05-25 00:13 J -22323570.57 -22323570.49 -22323570.41 0.2701 0.1727

Mercury -65829-11-16 17:16 J -22322298.92 -22322298.78 -22322298.64 0.2635 0.1198

Mercury -65825-05-17 23:59 J -22321020.59 -22321020.50 -22321020.41 0.2695 0.1312

Mercury -65812-05-20 17:45 J -22316269.87 -22316269.76 -22316269.65 0.2698 0.0224

Mercury -65799-05-23 11:16 J -22311519.13 -22311519.03 -22311518.92 0.2700 0.0868

Mercury -65796-11-14 16:04 J -22310247.98 -22310247.83 -22310247.67 0.2637 0.0653

Mercury -65792-05-16 11:01 J -22308969.10 -22308969.04 -22308968.98 0.2693 0.2180

Mercury -65786-05-26 05:01 J -22306768.36 -22306768.29 -22306768.22 0.2702 0.1940

Mercury -65783-11-17 23:59 J -22305496.62 -22305496.50 -22305496.37 0.2634 0.1630

Mercury -65779-05-19 04:47 J -22304218.40 -22304218.30 -22304218.20 0.2696 0.1091

Mercury -65766-05-21 22:33 J -22299467.67 -22299467.56 -22299467.45 0.2698 0.0023

Mercury -65763-11-12 15:06 J -22298196.92 -22298196.87 -22298196.82 0.2639 0.2482

Mercury -65753-05-23 16:18 J -22294716.92 -22294716.82 -22294716.73 0.2700 0.1084

Mercury -65750-11-15 22:47 J -22293445.71 -22293445.55 -22293445.38 0.2637 0.0234

Mercury -65746-05-17 15:49 J -22292166.91 -22292166.84 -22292166.76 0.2694 0.1964

Mercury -65740-05-26 09:49 J -22289966.15 -22289966.09 -22289966.03 0.2702 0.2154

Mercury -65737-11-18 06:57 J -22288694.31 -22288694.21 -22288694.12 0.2634 0.2065

Mercury -65733-05-19 09:35 J -22287416.20 -22287416.10 -22287415.99 0.2696 0.0874

Venus -65721-09-13 05:59 J -22282916.39 -22282916.25 -22282916.11 0.2697 0.1222

Mercury -65720-05-22 03:21 J -22282665.47 -22282665.36 -22282665.25 0.2698 0.0215

Mercury -65717-11-12 21:49 J -22281394.69 -22281394.59 -22281394.49 0.2639 0.2059

Mercury -65707-05-24 21:06 J -22277914.72 -22277914.62 -22277914.53 0.2700 0.1298

Mercury -65704-11-16 05:30 J -22276643.43 -22276643.27 -22276643.10 0.2636 0.0217

Mercury -65700-05-17 20:37 J -22275364.72 -22275364.64 -22275364.56 0.2694 0.1745

Mercury -65694-05-27 14:37 J -22273163.94 -22273163.89 -22273163.84 0.2702 0.2369

Mercury -65691-11-19 13:40 J -22271891.98 -22271891.93 -22271891.88 0.2634 0.2497

Mercury -65687-05-20 14:23 J -22270614.00 -22270613.90 -22270613.79 0.2696 0.0659

Mercury -65674-05-23 08:09 J -22265863.27 -22265863.16 -22265863.05 0.2698 0.0430

Mercury -65671-11-14 04:33 J -22264592.43 -22264592.31 -22264592.19 0.2638 0.1633

Mercury -65667-05-16 07:40 J -22263313.20 -22263313.18 -22263313.16 0.2692 0.2616

Mercury -65661-05-25 01:54 J -22261112.51 -22261112.42 -22261112.33 0.2700 0.1514

Mercury -65658-11-17 12:28 J -22259841.14 -22259840.98 -22259840.83 0.2636 0.0638

Mercury -65654-05-19 01:25 J -22258562.53 -22258562.44 -22258562.35 0.2694 0.1530

Mercury -65648-05-27 19:25 J -22256361.72 -22256361.69 -22256361.66 0.2702 0.2584

Mercury -65641-05-20 19:11 J -22253811.80 -22253811.70 -22253811.59 0.2697 0.0441

Mercury -65628-05-23 12:57 J -22249061.07 -22249060.96 -22249060.85 0.2699 0.0645

Mercury -65625-11-14 11:16 J -22247790.17 -22247790.03 -22247789.89 0.2638 0.1206

Mercury -65621-05-16 12:28 J -22246511.02 -22246510.98 -22246510.93 0.2692 0.2399

Mercury -65615-05-26 06:42 J -22244310.31 -22244310.22 -22244310.14 0.2701 0.1724

Mercury -65612-11-17 19:11 J -22243038.85 -22243038.70 -22243038.56 0.2636 0.1062

Mercury -65608-05-19 06:13 J -22241760.33 -22241760.24 -22241760.14 0.2695 0.1310

Mercury -65595-05-21 23:59 J -22237009.61 -22237009.50 -22237009.39 0.2697 0.0230

Venus -65591-03-18 13:54 J -22235613.07 -22235612.92 -22235612.76 0.2635 0.0661

Mercury -65582-05-24 17:45 J -22232258.86 -22232258.76 -22232258.66 0.2699 0.0860

Mercury -65579-11-15 17:59 J -22230987.90 -22230987.75 -22230987.60 0.2638 0.0785

Mercury -65575-05-17 17:16 J -22229708.84 -22229708.78 -22229708.71 0.2693 0.2181

Mercury -65569-05-26 11:30 J -22227508.10 -22227508.02 -22227507.95 0.2701 0.1940

Mercury -65566-11-19 01:54 J -22226236.55 -22226236.42 -22226236.29 0.2635 0.1491

Mercury -65562-05-20 11:16 J -22224958.13 -22224958.03 -22224957.94 0.2695 0.1096

Mercury -65549-05-22 04:47 J -22220207.41 -22220207.30 -22220207.19 0.2697 0.0067

Mercury -65546-11-13 17:01 J -22218936.81 -22218936.79 -22218936.77 0.2640 0.2607

Mercury -65536-05-24 22:33 J -22215456.66 -22215456.56 -22215456.46 0.2699 0.1075

Mercury -65533-11-16 00:42 J -22214185.63 -22214185.47 -22214185.31 0.2637 0.0362

Mercury -65529-05-17 22:18 J -22212906.65 -22212906.57 -22212906.50 0.2693 0.1961

Mercury -65523-05-27 16:18 J -22210705.89 -22210705.82 -22210705.76 0.2701 0.2151

Mercury -65520-11-19 08:37 J -22209434.25 -22209434.14 -22209434.03 0.2635 0.1916

Mercury -65516-05-20 16:04 J -22208155.94 -22208155.83 -22208155.73 0.2695 0.0879

Mercury -65503-05-23 09:35 J -22203405.20 -22203405.10 -22203404.99 0.2697 0.0226

Mercury -65500-11-13 23:45 J -22202134.60 -22202134.51 -22202134.42 0.2640 0.2178

Mercury -65490-05-26 03:21 J -22198654.45 -22198654.36 -22198654.26 0.2699 0.1292

Mercury -65487-11-17 07:25 J -22197383.35 -22197383.19 -22197383.03 0.2637 0.0072

Mercury -65483-05-19 03:06 J -22196104.46 -22196104.37 -22196104.29 0.2693 0.1742

Venus -65478-09-14 06:13 J -22194160.38 -22194160.24 -22194160.09 0.2699 0.1020

Mercury -65477-05-27 21:06 J -22193903.67 -22193903.62 -22193903.57 0.2701 0.2365

Mercury -65474-11-20 15:21 J -22192631.93 -22192631.86 -22192631.79 0.2635 0.2344

Mercury -65470-05-21 20:52 J -22191353.74 -22191353.63 -22191353.53 0.2696 0.0661

Mercury -65457-05-23 14:23 J -22186603.00 -22186602.90 -22186602.79 0.2698 0.0440

Mercury -65454-11-15 06:28 J -22185332.35 -22185332.23 -22185332.11 0.2639 0.1753

Mercury -65450-05-17 14:09 J -22184052.94 -22184052.91 -22184052.89 0.2691 0.2610

Mercury -65444-05-26 08:09 J -22181852.25 -22181852.16 -22181852.07 0.2700 0.1503

Mercury -65441-11-17 14:09 J -22180581.06 -22180580.91 -22180580.75 0.2637 0.0507

Mercury -65437-05-19 07:54 J -22179302.26 -22179302.17 -22179302.08 0.2694 0.1521

Mercury -65431-05-29 01:54 J -22177101.45 -22177101.42 -22177101.39 0.2702 0.2576

Mercury -65424-05-22 01:40 J -22174551.54 -22174551.43 -22174551.33 0.2696 0.0444

Mercury -65411-05-24 19:11 J -22169800.80 -22169800.70 -22169800.59 0.2698 0.0652

Mercury -65408-11-15 13:11 J -22168530.09 -22168529.95 -22168529.81 0.2639 0.1334

Mercury -65404-05-17 18:57 J -22167250.76 -22167250.71 -22167250.67 0.2692 0.2392

Mercury -65398-05-27 12:57 J -22165050.04 -22165049.96 -22165049.88 0.2700 0.1720

Mercury -65395-11-18 21:06 J -22163778.78 -22163778.62 -22163778.47 0.2636 0.0929

Mercury -65391-05-20 12:42 J -22162500.07 -22162499.97 -22162499.88 0.2694 0.1304

Mercury -65378-05-23 06:28 J -22157749.34 -22157749.23 -22157749.12 0.2696 0.0228

Mercury -65365-05-25 00:13 J -22152998.60 -22152998.49 -22152998.39 0.2698 0.0868

Mercury -65362-11-16 19:54 J -22151727.82 -22151727.67 -22151727.52 0.2639 0.0916

Mercury -65358-05-18 23:45 J -22150448.57 -22150448.51 -22150448.45 0.2692 0.2173

Mercury -65352-05-27 17:45 J -22148247.83 -22148247.76 -22148247.68 0.2700 0.1930

Mercury -65349-11-19 03:49 J -22146976.48 -22146976.34 -22146976.21 0.2636 0.1351

Venus -65348-03-18 15:49 J -22146856.99 -22146856.84 -22146856.68 0.2634 0.0577

Mercury -65345-05-20 17:30 J -22145697.87 -22145697.77 -22145697.67 0.2694 0.1088

Mercury -65332-05-23 11:16 J -22140947.14 -22140947.03 -22140946.92 0.2696 0.0052

Mercury -65319-05-26 05:01 J -22136196.39 -22136196.29 -22136196.19 0.2698 0.1078

Mercury -65316-11-17 02:37 J -22134925.55 -22134925.39 -22134925.23 0.2638 0.0489

Mercury -65312-05-19 04:33 J -22133646.39 -22133646.31 -22133646.24 0.2692 0.1956

Mercury -65306-05-28 22:33 J -22131445.62 -22131445.56 -22131445.50 0.2700 0.2145

Mercury -65303-11-20 10:33 J -22130174.18 -22130174.06 -22130173.95 0.2636 0.1776

Mercury -65299-05-21 22:18 J -22128895.67 -22128895.57 -22128895.47 0.2694 0.0871

Mercury -65286-05-24 16:04 J -22124144.94 -22124144.83 -22124144.72 0.2697 0.0217

Mercury -65283-11-15 01:40 J -22122874.51 -22122874.43 -22122874.36 0.2640 0.2306

Mercury -65273-05-26 09:49 J -22119394.19 -22119394.09 -22119394.00 0.2699 0.1291

Mercury -65270-11-18 09:21 J -22118123.27 -22118123.11 -22118122.95 0.2638 0.0063

Mercury -65266-05-20 09:21 J -22116844.19 -22116844.11 -22116844.03 0.2693 0.1737

Mercury -65260-05-29 03:21 J -22114643.41 -22114643.36 -22114643.31 0.2701 0.2354

Mercury -65257-11-20 17:16 J -22113371.87 -22113371.78 -22113371.69 0.2635 0.2203

Mercury -65253-05-22 03:06 J -22112093.48 -22112093.37 -22112093.26 0.2695 0.0653

Mercury -65240-05-24 20:52 J -22107342.74 -22107342.63 -22107342.52 0.2697 0.0426

Mercury -65237-11-15 08:23 J -22106072.26 -22106072.15 -22106072.04 0.2640 0.1884

Venus -65235-09-14 06:28 J -22105404.38 -22105404.23 -22105404.08 0.2700 0.0808

Mercury -65233-05-17 20:23 J -22104792.68 -22104792.65 -22104792.63 0.2691 0.2605

Mercury -65227-05-27 14:23 J -22102591.98 -22102591.90 -22102591.81 0.2699 0.1504

Mercury -65224-11-18 16:04 J -22101320.99 -22101320.83 -22101320.67 0.2638 0.0356

Mercury -65220-05-20 14:09 J -22100042.00 -22100041.91 -22100041.82 0.2693 0.1517

Mercury -65214-05-30 08:09 J -22097841.19 -22097841.16 -22097841.13 0.2701 0.2567

Mercury -65211-11-21 23:59 J -22096569.50 -22096569.50 -22096569.49 0.2635 0.2631

Mercury -65207-05-23 07:54 J -22095291.28 -22095291.17 -22095291.06 0.2695 0.0437

Mercury -65194-05-26 01:40 J -22090540.54 -22090540.43 -22090540.33 0.2697 0.0642

Mercury -65191-11-16 15:06 J -22089270.00 -22089269.87 -22089269.74 0.2640 0.1467

Mercury -65187-05-19 01:11 J -22087990.50 -22087990.45 -22087990.40 0.2691 0.2384

Mercury -65181-05-27 19:11 J -22085789.78 -22085789.70 -22085789.61 0.2699 0.1714

Mercury -65178-11-19 22:47 J -22084518.70 -22084518.55 -22084518.40 0.2637 0.0782

Mercury -65174-05-21 18:57 J -22083239.80 -22083239.71 -22083239.61 0.2693 0.1301

Mercury -65161-05-23 12:42 J -22078489.08 -22078488.97 -22078488.86 0.2695 0.0223

Mercury -65148-05-26 06:28 J -22073738.33 -22073738.23 -22073738.13 0.2698 0.0854

Mercury -65145-11-16 21:49 J -22072467.74 -22072467.59 -22072467.44 0.2639 0.1036

Mercury -65141-05-19 05:59 J -22071188.31 -22071188.25 -22071188.19 0.2691 0.2169

Mercury -65135-05-29 00:13 J -22068987.57 -22068987.49 -22068987.42 0.2699 0.1928

Mercury -65132-11-20 05:30 J -22067716.41 -22067716.27 -22067716.12 0.2637 0.1209

Mercury -65128-05-21 23:45 J -22066437.61 -22066437.51 -22066437.41 0.2693 0.1086

Mercury -65115-05-24 17:30 J -22061686.88 -22061686.77 -22061686.66 0.2696 0.0051

Venus -65105-03-18 17:30 J -22058100.93 -22058100.77 -22058100.61 0.2633 0.0497

Mercury -65102-05-27 11:16 J -22056936.13 -22056936.03 -22056935.93 0.2698 0.1069

Mercury -65099-11-18 04:33 J -22055665.47 -22055665.31 -22055665.15 0.2639 0.0616

Mercury -65095-05-20 10:47 J -22054386.12 -22054386.05 -22054385.97 0.2691 0.1950

Mercury -65089-05-29 05:01 J -22052185.36 -22052185.29 -22052185.23 0.2700 0.2137

Mercury -65086-11-21 12:28 J -22050914.11 -22050913.98 -22050913.86 0.2637 0.1640

Mercury -65082-05-23 04:33 J -22049635.41 -22049635.31 -22049635.20 0.2694 0.0872

Mercury -65069-05-24 22:18 J -22044884.68 -22044884.57 -22044884.46 0.2696 0.0216

Mercury -65066-11-16 03:35 J -22043614.41 -22043614.35 -22043614.29 0.2641 0.2424

Mercury -65056-05-27 16:04 J -22040133.93 -22040133.83 -22040133.74 0.2698 0.1281

Mercury -65053-11-18 11:16 J -22038863.19 -22038863.03 -22038862.87 0.2639 0.0199

Mercury -65049-05-20 15:35 J -22037583.93 -22037583.85 -22037583.76 0.2692 0.1734

Mercury -65043-05-30 09:49 J -22035383.15 -22035383.09 -22035383.04 0.2700 0.2352

Mercury -65040-11-21 19:11 J -22034111.80 -22034111.70 -22034111.60 0.2636 0.2060

Mercury -65036-05-23 09:21 J -22032833.21 -22032833.11 -22032833.00 0.2694 0.0660

Mercury -65023-05-26 03:06 J -22028082.47 -22028082.37 -22028082.26 0.2696 0.0429

Mercury -65020-11-16 10:18 J -22026812.17 -22026812.07 -22026811.97 0.2641 0.2011

Mercury -65016-05-19 02:37 J -22025532.41 -22025532.39 -22025532.36 0.2690 0.2600

Mercury -65010-05-28 20:52 J -22023331.72 -22023331.63 -22023331.54 0.2698 0.1495

Mercury -65007-11-19 17:59 J -22022060.91 -22022060.75 -22022060.59 0.2638 0.0222

Mercury -65003-05-21 20:23 J -22020781.74 -22020781.65 -22020781.56 0.2692 0.1519

65TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 65th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-64997-05-30 14:37 J	-22018580.93	-22018580.89	-22018580.86	0.2700	0.2558		
Mercury	-64994-11-23 01:54 J	-22017309.47	-22017309.42	-22017309.37	0.2636	0.2482		
Venus	-64992-09-14 06:57 J	-22016648.36	-22016648.21	-22016648.06	0.2701	0.0619		
Mercury	-64990-05-24 14:09 J	-22016031.01	-22016030.91	-22016030.80	0.2694	0.0449		
Mercury	-64977-05-26 07:54 J	-22011280.27	-22011280.17	-22011280.06	0.2696	0.0642		
Mercury	-64974-11-17 17:01 J	-22010009.91	-22010009.79	-22010009.66	0.2641	0.1586		
Mercury	-64970-05-20 07:25 J	-22008730.24	-22008730.19	-22008730.14	0.2690	0.2384		
Mercury	-64964-05-29 01:40 J	-22006529.51	-22006529.43	-22006529.35	0.2698	0.1706		
Mercury	-64961-11-20 00:42 J	-22005258.62	-22005258.47	-22005258.31	0.2638	0.0645		
Mercury	-64957-05-22 01:11 J	-22003979.54	-22003979.45	-22003979.35	0.2692	0.1307		
Mercury	-64944-05-24 18:57 J	-21999228.81	-21999228.71	-21999228.60	0.2695	0.0250		
Mercury	-64931-05-27 12:42 J	-21994478.07	-21994477.97	-21994477.86	0.2697	0.0854		
Mercury	-64928-11-17 23:45 J	-21993207.65	-21993207.51	-21993207.37	0.2640	0.1174		
Mercury	-64924-05-20 12:13 J	-21991928.05	-21991927.99	-21991927.92	0.2691	0.2164		
Mercury	-64918-05-30 06:28 J	-21989727.30	-21989727.23	-21989727.15	0.2699	0.1917		
Mercury	-64915-11-21 07:25 J	-21988456.33	-21988456.19	-21988456.04	0.2638	0.1070		
Mercury	-64911-05-23 06:13 J	-21987177.34	-21987177.24	-21987177.14	0.2693	0.1089		
Mercury	-64898-05-25 23:59 J	-21982426.61	-21982426.50	-21982426.40	0.2695	0.0112		
Mercury	-64885-05-27 17:30 J	-21977675.87	-21977675.77	-21977675.67	0.2697	0.1065		
Mercury	-64882-11-19 06:28 J	-21976405.38	-21976405.23	-21976405.08	0.2640	0.0752		
Mercury	-64878-05-21 17:16 J	-21975125.86	-21975125.78	-21975125.71	0.2691	0.1950		
Mercury	-64872-05-30 11:16 J	-21972925.09	-21972925.03	-21972924.96	0.2699	0.2129		
Mercury	-64869-11-21 14:09 J	-21971654.04	-21971653.91	-21971653.78	0.2637	0.1484		
Mercury	-64865-05-23 11:01 J	-21970375.15	-21970375.04	-21970374.94	0.2693	0.0869		
Venus	-64862-03-19 19:11 J	-21969344.86	-21969344.70	-21969344.54	0.2632	0.0414		
Mercury	-64852-05-26 04:47 J	-21965624.41	-21965624.30	-21965624.20	0.2695	0.0225		

Mercury -64849-11-16 05:45 J -21964354.30 -21964354.26 -21964354.22 0.2642 0.2542

Mercury -64839-05-28 22:18 J -21960873.66 -21960873.57 -21960873.47 0.2697 0.1280

Mercury -64836-11-19 13:11 J -21959603.11 -21959602.95 -21959602.79 0.2640 0.0334

Mercury -64832-05-21 22:04 J -21958323.67 -21958323.58 -21958323.50 0.2691 0.1731

Mercury -64826-05-31 16:04 J -21956122.88 -21956122.83 -21956122.78 0.2699 0.2336

Mercury -64823-11-22 20:52 J -21954851.74 -21954851.63 -21954851.52 0.2637 0.1913

Mercury -64819-05-24 15:49 J -21953572.95 -21953572.84 -21953572.74 0.2693 0.0656

Mercury -64806-05-27 09:35 J -21948822.21 -21948822.10 -21948822.00 0.2696 0.0428

Mercury -64803-11-17 12:28 J -21947552.08 -21947551.98 -21947551.89 0.2642 0.2126

Mercury -64799-05-20 08:52 J -21946272.15 -21946272.13 -21946272.10 0.2689 0.2598

Mercury -64793-05-29 03:21 J -21944071.45 -21944071.36 -21944071.27 0.2698 0.1493

Mercury -64790-11-20 19:54 J -21942800.83 -21942800.67 -21942800.51 0.2639 0.0102

Mercury -64786-05-23 02:52 J -21941521.47 -21941521.38 -21941521.29 0.2691 0.1519

Mercury -64780-05-31 20:52 J -21939320.66 -21939320.63 -21939320.60 0.2699 0.2549

Mercury -64777-11-23 03:49 J -21938049.42 -21938049.34 -21938049.27 0.2637 0.2333

Mercury -64773-05-24 20:37 J -21936770.75 -21936770.64 -21936770.53 0.2694 0.0439

Mercury -64760-05-27 14:23 J -21932020.01 -21932019.90 -21932019.80 0.2696 0.0636

Mercury -64757-11-17 18:57 J -21930749.83 -21930749.71 -21930749.59 0.2642 0.1717

Mercury -64753-05-20 13:54 J -21929469.97 -21929469.92 -21929469.88 0.2689 0.2379

Venus -64749-09-14 07:40 J -21927892.34 -21927892.18 -21927892.03 0.2702 0.0436

Mercury -64747-05-30 08:09 J -21927269.25 -21927269.16 -21927269.08 0.2698 0.1704

Mercury -64744-11-21 02:37 J -21925998.54 -21925998.39 -21925998.23 0.2639 0.0510

Mercury -64740-05-23 07:40 J -21924719.28 -21924719.18 -21924719.09 0.2692 0.1299

Mercury -64727-05-26 01:25 J -21919968.55 -21919968.44 -21919968.33 0.2694 0.0227

Mercury -64714-05-28 19:11 J -21915217.80 -21915217.70 -21915217.60 0.2696 0.0846

Mercury -64711-11-19 01:40 J -21913947.56 -21913947.43 -21913947.29 0.2641 0.1300

Mercury -64707-05-21 18:42 J -21912667.79 -21912667.72 -21912667.66 0.2690 0.2166

Mercury -64701-05-30 12:57 J -21910467.04 -21910466.96 -21910466.89 0.2698 0.1913

Mercury -64698-11-22 09:21 J -21909196.26 -21909196.11 -21909195.96 0.2639 0.0924

Mercury -64694-05-24 12:28 J -21907917.08 -21907916.98 -21907916.88 0.2692 0.1084

Mercury -64681-05-26 06:13 J -21903166.35 -21903166.24 -21903166.13 0.2694 0.0009

Mercury -64668-05-28 23:59 J -21898415.60 -21898415.50 -21898415.40 0.2696 0.1059

Mercury -64665-11-19 08:23 J -21897145.30 -21897145.15 -21897145.00 0.2641 0.0889

Mercury -64661-05-21 23:30 J -21895865.60 -21895865.52 -21895865.45 0.2690 0.1947

Mercury -64655-05-31 17:45 J -21893664.83 -21893664.76 -21893664.70 0.2698 0.2122

Mercury -64652-11-22 16:04 J -21892393.97 -21892393.83 -21892393.69 0.2638 0.1344

Mercury -64648-05-24 17:16 J -21891114.88 -21891114.78 -21891114.68 0.2692 0.0871

Mercury -64635-05-27 11:01 J -21886364.15 -21886364.04 -21886363.93 0.2694 0.0203

Mercury -64622-05-30 04:47 J -21881613.40 -21881613.30 -21881613.21 0.2697 0.1272

Venus -64619-03-19 20:52 J -21880588.79 -21880588.63 -21880588.47 0.2631 0.0340

Mercury -64619-11-20 15:06 J -21880343.03 -21880342.87 -21880342.71 0.2640 0.0467

Mercury -64615-05-23 04:18 J -21879063.40 -21879063.32 -21879063.24 0.2690 0.1733

Mercury -64609-05-31 22:33 J -21876862.62 -21876862.56 -21876862.51 0.2698 0.2331

Mercury -64606-11-23 22:47 J -21875591.67 -21875591.55 -21875591.43 0.2638 0.1760

Mercury -64602-05-25 22:04 J -21874312.68 -21874312.58 -21874312.47 0.2693 0.0656

Mercury -64589-05-27 15:49 J -21869561.95 -21869561.84 -21869561.73 0.2695 0.0417

Mercury -64586-11-18 14:23 J -21868291.98 -21868291.90 -21868291.82 0.2643 0.2254

Mercury -64582-05-21 15:21 J -21867011.89 -21867011.86 -21867011.84 0.2688 0.2593

Mercury -64576-05-30 09:35 J -21864811.19 -21864811.10 -21864811.01 0.2697 0.1479

Mercury -64573-11-20 21:49 J -21863540.75 -21863540.59 -21863540.43 0.2640 0.0057

Mercury -64569-05-23 09:06 J -21862261.21 -21862261.12 -21862261.03 0.2691 0.1512

Mercury -64563-06-02 03:21 J -21860060.40 -21860060.36 -21860060.33 0.2699 0.2540

Mercury -64560-11-24 05:30 J -21858789.35 -21858789.27 -21858789.18 0.2638 0.2185

Mercury -64556-05-26 02:52 J -21857510.49 -21857510.38 -21857510.27 0.2693 0.0444

Mercury -64543-05-28 20:37 J -21852759.74 -21852759.64 -21852759.53 0.2695 0.0630

Mercury -64540-11-18 21:06 J -21851489.73 -21851489.62 -21851489.51 0.2642 0.1839

Mercury -64536-05-21 20:09 J -21850209.71 -21850209.66 -21850209.61 0.2689 0.2377

Mercury -64530-05-31 14:23 J -21848008.98 -21848008.90 -21848008.82 0.2697 0.1690

Mercury -64527-11-22 04:33 J -21846738.47 -21846738.31 -21846738.15 0.2640 0.0369

Mercury -64523-05-24 13:54 J -21845459.01 -21845458.92 -21845458.82 0.2691 0.1300

Mercury -64514-11-25 12:13 J -21841987.01 -21841986.99 -21841986.96 0.2637 0.2600

Mercury -64510-05-27 07:40 J -21840708.28 -21840708.18 -21840708.07 0.2693 0.0242

Venus -64506-09-15 08:09 J -21839136.31 -21839136.16 -21839136.00 0.2703 0.0259

Mercury -64497-05-29 01:25 J -21835957.54 -21835957.44 -21835957.33 0.2695 0.0845

Mercury -64494-11-20 03:49 J -21834687.48 -21834687.34 -21834687.21 0.2642 0.1430

Mercury -64490-05-23 00:57 J -21833407.52 -21833407.46 -21833407.40 0.2689 0.2161

Mercury -64484-05-31 19:11 J -21831206.78 -21831206.70 -21831206.62 0.2697 0.1900

Mercury -64481-11-22 11:16 J -21829936.18 -21829936.03 -21829935.87 0.2639 0.0784

Mercury -64477-05-24 18:42 J -21828656.82 -21828656.72 -21828656.62 0.2691 0.1086

Mercury -64464-05-27 12:28 J -21823906.08 -21823905.98 -21823905.87 0.2693 0.0110

Mercury -64451-05-30 06:13 J -21819155.34 -21819155.24 -21819155.14 0.2696 0.1058

Mercury -64448-11-20 10:33 J -21817885.21 -21817885.06 -21817884.92 0.2642 0.1015

Mercury -64444-05-23 05:45 J -21816605.33 -21816605.26 -21816605.19 0.2689 0.1946

Mercury -64438-06-01 23:59 J -21814404.57 -21814404.50 -21814404.43 0.2698 0.2111

Mercury -64435-11-23 17:59 J -21813133.89 -21813133.75 -21813133.61 0.2639 0.1202

Mercury -64431-05-25 23:30 J -21811854.62 -21811854.52 -21811854.41 0.2692 0.0878

Mercury -64418-05-28 17:30 J -21807103.88 -21807103.77 -21807103.67 0.2694 0.0229

Mercury -64405-05-30 11:01 J -21802353.13 -21802353.04 -21802352.94 0.2696 0.1264

Mercury -64402-11-21 17:01 J -21801082.94 -21801082.79 -21801082.63 0.2641 0.0609

Mercury -64398-05-24 10:33 J -21799803.14 -21799803.06 -21799802.97 0.2690 0.1730

Mercury -64392-06-02 04:47 J -21797602.35 -21797602.30 -21797602.25 0.2698 0.2319

Mercury -64389-11-24 00:42 J -21796331.59 -21796331.47 -21796331.34 0.2639 0.1618

Mercury -64385-05-26 04:33 J -21795052.42 -21795052.31 -21795052.21 0.2692 0.0666

Venus -64376-03-19 22:04 J -21791832.74 -21791832.58 -21791832.42 0.2630 0.0283

Mercury -64372-05-28 22:18 J -21790301.68 -21790301.57 -21790301.47 0.2694 0.0424

Mercury -64369-11-18 16:18 J -21789031.88 -21789031.82 -21789031.75 0.2644 0.2382

Mercury -64365-05-21 21:35 J -21787751.63 -21787751.60 -21787751.58 0.2688 0.2593

Mercury -64359-05-31 15:49 J -21785550.93 -21785550.84 -21785550.75 0.2696 0.1474

Mercury -64356-11-21 23:45 J -21784280.67 -21784280.51 -21784280.35 0.2641 0.0201

Mercury -64352-05-24 15:21 J -21783000.95 -21783000.86 -21783000.77 0.2690 0.1520

Mercury -64346-06-03 09:35 J -21780800.13 -21780800.10 -21780800.06 0.2698 0.2526

Mercury -64343-11-25 07:25 J -21779529.29 -21779529.19 -21779529.09 0.2638 0.2031

Mercury -64339-05-27 09:21 J -21778250.22 -21778250.11 -21778250.01 0.2692 0.0451

Mercury -64326-05-30 03:06 J -21773499.48 -21773499.37 -21773499.27 0.2694 0.0632

Mercury -64323-11-19 23:01 J -21772229.64 -21772229.54 -21772229.43 0.2643 0.1973

Mercury -64319-05-23 02:23 J -21770949.45 -21770949.40 -21770949.35 0.2688 0.2377

Mercury -64313-05-31 20:37 J -21768748.72 -21768748.64 -21768748.55 0.2696 0.1683

Mercury -64310-11-23 06:28 J -21767478.39 -21767478.23 -21767478.07 0.2641 0.0219

Mercury -64306-05-25 20:23 J -21766198.75 -21766198.65 -21766198.56 0.2690 0.1305

Mercury -64297-11-25 14:09 J -21762726.96 -21762726.91 -21762726.85 0.2638 0.2450

Mercury -64293-05-27 14:09 J -21761448.02 -21761447.91 -21761447.80 0.2692 0.0247

Mercury -64280-05-30 07:54 J -21756697.28 -21756697.17 -21756697.07 0.2695 0.0837

Mercury -64277-11-20 05:45 J -21755427.39 -21755427.26 -21755427.13 0.2643 0.1562

Mercury -64273-05-23 07:11 J -21754147.26 -21754147.20 -21754147.13 0.2688 0.2160

Mercury -64267-06-02 01:25 J -21751946.51 -21751946.44 -21751946.36 0.2697 0.1895

Mercury -64264-11-23 13:11 J -21750676.10 -21750675.95 -21750675.79 0.2640 0.0638

Venus -64263-09-15 09:06 J -21750380.28 -21750380.12 -21750379.97 0.2704 0.0110

Mercury -64260-05-26 01:11 J -21749396.55 -21749396.45 -21749396.35 0.2691 0.1091

Mercury -64247-05-28 18:57 J -21744645.82 -21744645.71 -21744645.60 0.2693 0.0065

Mercury -64234-05-31 12:42 J -21739895.07 -21739894.97 -21739894.87 0.2695 0.1045

Mercury -64231-11-21 12:28 J -21738625.12 -21738624.98 -21738624.84 0.2643 0.1146

Mercury -64227-05-24 11:59 J -21737345.07 -21737345.00 -21737344.92 0.2689 0.1948

Mercury -64221-06-02 06:13 J -21735144.30 -21735144.24 -21735144.17 0.2697 0.2099

Mercury -64218-11-24 19:54 J -21733873.81 -21733873.67 -21733873.52 0.2640 0.1052

Mercury -64214-05-27 05:59 J -21732594.36 -21732594.25 -21732594.15 0.2691 0.0872

Mercury -64201-05-28 23:45 J -21727843.62 -21727843.51 -21727843.40 0.2693 0.0198

Mercury -64188-05-31 17:30 J -21723092.87 -21723092.77 -21723092.68 0.2695 0.1254

Mercury -64185-11-21 19:11 J -21721822.85 -21721822.70 -21721822.55 0.2642 0.0737

Mercury -64181-05-24 17:01 J -21720542.88 -21720542.79 -21720542.71 0.2689 0.1734

Mercury -64175-06-03 11:16 J -21718342.09 -21718342.03 -21718341.98 0.2697 0.2309

Mercury -64172-11-25 02:37 J -21717071.52 -21717071.39 -21717071.25 0.2640 0.1471

Mercury -64168-05-27 10:47 J -21715792.16 -21715792.05 -21715791.95 0.2691 0.0662

Mercury -64155-05-30 04:33 J -21711041.42 -21711041.31 -21711041.20 0.2693 0.0407

Mercury -64152-11-19 18:28 J -21709771.78 -21709771.73 -21709771.68 0.2644 0.2503

Mercury -64148-05-23 03:49 J -21708491.36 -21708491.34 -21708491.31 0.2687 0.2593

Mercury -64142-06-01 22:18 J -21706290.66 -21706290.57 -21706290.48 0.2695 0.1463

Mercury -64139-11-23 01:54 J -21705020.58 -21705020.42 -21705020.27 0.2642 0.0339

Mercury -64135-05-25 21:49 J -21703740.68 -21703740.59 -21703740.50 0.2689 0.1519

Venus -64133-03-19 23:30 J -21703076.68 -21703076.52 -21703076.35 0.2629 0.0212

Mercury -64129-06-03 16:04 J -21701539.87 -21701539.83 -21701539.80 0.2697 0.2514

Mercury -64126-11-26 09:21 J -21700269.22 -21700269.11 -21700269.00 0.2639 0.1883

Mercury -64122-05-28 15:35 J -21698989.96 -21698989.85 -21698989.74 0.2691 0.0451

Mercury -64109-05-30 09:21 J -21694239.22 -21694239.11 -21694239.00 0.2694 0.0613

Mercury -64106-11-21 01:11 J -21692969.55 -21692969.45 -21692969.36 0.2644 0.2098

Mercury -64102-05-24 08:37 J -21691689.19 -21691689.14 -21691689.09 0.2687 0.2378

Mercury -64096-06-02 03:06 J -21689488.45 -21689488.37 -21689488.29 0.2696 0.1673

Mercury -64093-11-23 08:37 J -21688218.30 -21688218.14 -21688217.98 0.2641 0.0108

Mercury -64089-05-26 02:37 J -21686938.49 -21686938.39 -21686938.30 0.2689 0.1308

Mercury -64080-11-26 16:04 J -21683466.90 -21683466.83 -21683466.75 0.2639 0.2295

Mercury -64076-05-28 20:23 J -21682187.76 -21682187.65 -21682187.54 0.2692 0.0238

Mercury -64063-05-31 14:09 J -21677437.01 -21677436.91 -21677436.81 0.2694 0.0826

Mercury -64060-11-21 07:54 J -21676167.30 -21676167.17 -21676167.05 0.2644 0.1692

Mercury -64056-05-24 13:25 J -21674887.00 -21674886.94 -21674886.87 0.2688 0.2166

Mercury -64050-06-03 07:54 J -21672686.25 -21672686.17 -21672686.09 0.2696 0.1877

Mercury -64047-11-24 15:06 J -21671416.02 -21671415.87 -21671415.71 0.2641 0.0499

Mercury -64043-05-27 07:25 J -21670136.29 -21670136.19 -21670136.09 0.2690 0.1092

Mercury -64030-05-30 01:11 J -21665385.56 -21665385.45 -21665385.34 0.2692 0.0028

Venus -64020-09-15 09:49 J -21661624.25 -21661624.09 -21661623.93 0.2705 0.0080

Mercury -64017-05-31 18:57 J -21660634.81 -21660634.71 -21660634.61 0.2694 0.1032

Mercury -64014-11-22 14:23 J -21659365.04 -21659364.90 -21659364.76 0.2643 0.1288

Mercury -64010-05-25 18:28 J -21658084.81 -21658084.73 -21658084.66 0.2688 0.1951

Mercury -64004-06-03 12:42 J -21655884.04 -21655883.97 -21655883.90 0.2696 0.2087

Mercury -64001-11-24 21:49 J -21654613.74 -21654613.59 -21654613.44 0.2641 0.0906

64TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 64th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-63997-05-27 12:13 J	-21653334.09	-21653333.99	-21653333.89	0.2690	0.0880		
Mercury	-63984-05-30 05:59 J	-21648583.36	-21648583.25	-21648583.14	0.2692	0.0190		
Mercury	-63971-06-01 23:45 J	-21643832.60	-21643832.51	-21643832.41	0.2694	0.1244		
Mercury	-63968-11-22 21:06 J	-21642562.77	-21642562.62	-21642562.47	0.2643	0.0881		
Mercury	-63964-05-25 23:16 J	-21641282.62	-21641282.53	-21641282.45	0.2688	0.1735		
Mercury	-63958-06-04 17:30 J	-21639081.83	-21639081.77	-21639081.72	0.2696	0.2291		
Mercury	-63955-11-26 04:33 J	-21637811.45	-21637811.31	-21637811.17	0.2640	0.1312		
Mercury	-63951-05-28 17:01 J	-21636531.90	-21636531.79	-21636531.68	0.2691	0.0666		
Mercury	-63938-05-31 10:47 J	-21631781.16	-21631781.05	-21631780.94	0.2693	0.0399		
Mercury	-63935-11-20 20:37 J	-21630511.66	-21630511.64	-21630511.62	0.2645	0.2622		
Mercury	-63931-05-24 10:04 J	-21629231.10	-21629231.08	-21629231.05	0.2686	0.2594		
Mercury	-63925-06-02 04:33 J	-21627030.40	-21627030.31	-21627030.22	0.2695	0.1452		
Mercury	-63922-11-24 03:49 J	-21625760.50	-21625760.34	-21625760.18	0.2643	0.0469		
Mercury	-63918-05-27 04:04 J	-21624480.42	-21624480.33	-21624480.24	0.2688	0.1522		
Mercury	-63912-06-04 22:18 J	-21622279.61	-21622279.57	-21622279.53	0.2697	0.2500		
Mercury	-63909-11-26 11:16 J	-21621009.15	-21621009.03	-21621008.91	0.2640	0.1725		

Mercury -63905-05-28 21:49 J -21619729.70 -21619729.59 -21619729.48 0.2691 0.0458

Mercury -63892-05-31 15:35 J -21614978.95 -21614978.85 -21614978.74 0.2693 0.0614

Venus -63890-03-21 00:42 J -21614320.64 -21614320.47 -21614320.31 0.2628 0.0192

Mercury -63889-11-21 03:21 J -21613709.45 -21613709.36 -21613709.28 0.2645 0.2224

Mercury -63885-05-24 14:52 J -21612428.92 -21612428.88 -21612428.83 0.2687 0.2381

Mercury -63879-06-03 09:21 J -21610228.19 -21610228.11 -21610228.02 0.2695 0.1659

Mercury -63876-11-24 10:33 J -21608958.22 -21608958.06 -21608957.90 0.2642 0.0055

Mercury -63872-05-27 08:52 J -21607678.23 -21607678.13 -21607678.03 0.2689 0.1309

Mercury -63863-11-27 17:59 J -21604206.84 -21604206.75 -21604206.65 0.2640 0.2141

Mercury -63859-05-30 02:37 J -21602927.50 -21602927.39 -21602927.28 0.2691 0.0257

Mercury -63846-06-01 20:23 J -21598176.75 -21598176.65 -21598176.54 0.2693 0.0821

Mercury -63843-11-22 09:49 J -21596907.20 -21596907.09 -21596906.97 0.2645 0.1821

Mercury -63839-05-25 19:54 J -21595626.74 -21595626.67 -21595626.61 0.2687 0.2169

Mercury -63833-06-03 14:09 J -21593425.98 -21593425.91 -21593425.83 0.2695 0.1869

Mercury -63830-11-25 17:16 J -21592155.94 -21592155.78 -21592155.62 0.2642 0.0350

Mercury -63826-05-28 13:40 J -21590876.03 -21590875.93 -21590875.83 0.2689 0.1097

Mercury -63817-11-28 00:42 J -21587404.50 -21587404.47 -21587404.43 0.2639 0.2555

Mercury -63813-05-30 07:40 J -21586125.29 -21586125.18 -21586125.08 0.2691 0.0119

Mercury -63800-06-02 01:25 J -21581374.54 -21581374.44 -21581374.34 0.2693 0.1031

Mercury -63797-11-22 16:33 J -21580104.94 -21580104.81 -21580104.68 0.2644 0.1421

Mercury -63793-05-26 00:42 J -21578824.55 -21578824.47 -21578824.40 0.2687 0.1953

Mercury -63787-06-04 18:57 J -21576623.77 -21576623.71 -21576623.64 0.2695 0.2075

Mercury -63784-11-25 23:45 J -21575353.66 -21575353.51 -21575353.35 0.2642 0.0758

Mercury -63780-05-28 18:28 J -21574073.83 -21574073.73 -21574073.62 0.2689 0.0887

Venus -63777-09-15 10:47 J -21572868.21 -21572868.05 -21572867.90 0.2706 0.0238

Mercury -63767-05-31 12:28 J -21569323.09 -21569322.98 -21569322.88 0.2692 0.0208

Mercury -63754-06-03 06:13 J -21564572.34 -21564572.24 -21564572.15 0.2694 0.1235

Mercury -63751-11-23 23:16 J -21563302.68 -21563302.53 -21563302.39 0.2644 0.1014

Mercury -63747-05-27 05:30 J -21562022.35 -21562022.27 -21562022.19 0.2688 0.1741

Mercury -63741-06-04 23:45 J -21559821.56 -21559821.51 -21559821.45 0.2696 0.2284

Mercury -63738-11-27 06:28 J -21558551.37 -21558551.23 -21558551.08 0.2641 0.1165

Mercury -63734-05-29 23:16 J -21557271.63 -21557271.53 -21557271.42 0.2690 0.0680

Mercury -63721-05-31 17:16 J -21552520.89 -21552520.78 -21552520.68 0.2692 0.0397

Mercury -63714-05-25 16:18 J -21549970.84 -21549970.82 -21549970.79 0.2686 0.2597

Mercury -63708-06-03 11:01 J -21547770.14 -21547770.04 -21547769.95 0.2694 0.1443

Mercury -63705-11-24 05:45 J -21546500.41 -21546500.26 -21546500.10 0.2643 0.0612

Mercury -63701-05-27 10:18 J -21545220.16 -21545220.07 -21545219.98 0.2688 0.1526

Mercury -63695-06-06 04:33 J -21543019.34 -21543019.31 -21543019.27 0.2696 0.2484

Mercury -63692-11-27 13:11 J -21541749.07 -21541748.95 -21541748.82 0.2641 0.1575

Mercury -63688-05-30 04:18 J -21540469.43 -21540469.32 -21540469.22 0.2690 0.0476

Mercury -63675-06-01 22:04 J -21535718.69 -21535718.58 -21535718.48 0.2692 0.0600

Mercury -63672-11-22 05:16 J -21534449.35 -21534449.28 -21534449.21 0.2646 0.2355

Mercury -63668-05-25 21:21 J -21533168.66 -21533168.61 -21533168.57 0.2686 0.2383

Mercury -63662-06-04 15:49 J -21530967.93 -21530967.84 -21530967.76 0.2694 0.1647

Mercury -63659-11-25 12:28 J -21529698.14 -21529697.98 -21529697.82 0.2643 0.0209

Mercury -63655-05-28 15:06 J -21528417.96 -21528417.87 -21528417.77 0.2688 0.1315

Mercury -63649-06-06 09:21 J -21526217.11 -21526217.11 -21526217.10 0.2696 0.2692

Venus -63647-03-21 01:54 J -21525564.58 -21525564.42 -21525564.26 0.2627 0.0090

Mercury -63646-11-28 19:54 J -21524946.77 -21524946.67 -21524946.56 0.2641 0.1979

Mercury -63642-05-31 09:06 J -21523667.23 -21523667.12 -21523667.01 0.2690 0.0260

Mercury -63629-06-02 02:52 J -21518916.49 -21518916.38 -21518916.28 0.2693 0.0806

Mercury -63626-11-23 11:59 J -21517647.11 -21517647.00 -21517646.90 0.2645 0.1954

Mercury -63622-05-27 02:09 J -21516366.47 -21516366.41 -21516366.35 0.2686 0.2168

Mercury -63616-06-04 20:37 J -21514165.72 -21514165.64 -21514165.56 0.2694 0.1853

Mercury -63613-11-25 19:11 J -21512895.86 -21512895.70 -21512895.54 0.2643 0.0200

Mercury -63609-05-28 19:54 J -21511615.77 -21511615.67 -21511615.57 0.2688 0.1106

Mercury -63600-11-29 02:37 J -21508144.45 -21508144.39 -21508144.32 0.2640 0.2387

Mercury -63596-05-31 13:54 J -21506865.03 -21506864.92 -21506864.81 0.2691 0.0071

Mercury -63583-06-03 07:40 J -21502114.28 -21502114.18 -21502114.08 0.2693 0.1013

Mercury -63580-11-23 18:42 J -21500844.85 -21500844.72 -21500844.59 0.2645 0.1546

Mercury -63576-05-27 06:57 J -21499564.28 -21499564.21 -21499564.14 0.2686 0.1957

Mercury -63570-06-06 01:25 J -21497363.51 -21497363.44 -21497363.37 0.2695 0.2058

Mercury -63567-11-27 01:54 J -21496093.58 -21496093.42 -21496093.27 0.2642 0.0609

Mercury -63563-05-30 00:57 J -21494813.57 -21494813.46 -21494813.36 0.2689 0.0896

Mercury -63550-06-01 18:42 J -21490062.83 -21490062.72 -21490062.61 0.2691 0.0171

Mercury -63537-06-03 12:28 J -21485312.08 -21485311.98 -21485311.88 0.2693 0.1221

Venus -63534-09-16 11:59 J -21484112.16 -21484112.00 -21484111.85 0.2707 0.0367

Mercury -63534-11-25 01:11 J -21484042.59 -21484042.45 -21484042.30 0.2645 0.1151

Mercury -63530-05-28 11:45 J -21482762.09 -21482762.01 -21482761.92 0.2687 0.1742

Mercury -63524-06-06 06:13 J -21480561.30 -21480561.24 -21480561.18 0.2695 0.2263

Mercury -63521-11-27 08:37 J -21479291.29 -21479291.14 -21479290.99 0.2642 0.1019

Mercury -63517-05-30 05:45 J -21478011.37 -21478011.26 -21478011.16 0.2689 0.0682

Mercury -63504-06-01 23:30 J -21473260.63 -21473260.52 -21473260.41 0.2691 0.0377

Mercury -63497-05-25 22:47 J -21470710.58 -21470710.55 -21470710.53 0.2685 0.2601

Mercury -63491-06-04 17:16 J -21468509.87 -21468509.78 -21468509.69 0.2693 0.1426

Mercury -63488-11-25 07:54 J -21467240.32 -21467240.17 -21467240.02 0.2644 0.0749

Mercury -63484-05-28 16:33 J -21465959.90 -21465959.81 -21465959.72 0.2687 0.1535

Mercury -63478-06-07 11:01 J -21463759.08 -21463759.04 -21463759.00 0.2695 0.2469

Mercury -63475-11-28 15:21 J -21462489.00 -21462488.86 -21462488.73 0.2642 0.1420

Mercury -63471-05-31 10:33 J -21461209.17 -21461209.06 -21461208.95 0.2689 0.0469

Mercury -63458-06-03 04:18 J -21456458.43 -21456458.32 -21456458.21 0.2691 0.0586

Mercury -63455-11-23 07:25 J -21455189.24 -21455189.19 -21455189.14 0.2646 0.2481

Mercury -63451-05-27 03:35 J -21453908.40 -21453908.35 -21453908.30 0.2685 0.2388

Mercury -63445-06-04 22:04 J -21451707.66 -21451707.58 -21451707.49 0.2693 0.1634

Mercury -63442-11-26 14:37 J -21450438.05 -21450437.89 -21450437.74 0.2644 0.0359

Mercury -63438-05-29 21:35 J -21449157.70 -21449157.60 -21449157.51 0.2687 0.1324

Mercury -63432-06-07 15:49 J -21446956.85 -21446956.84 -21446956.83 0.2695 0.2670

Mercury -63429-11-28 21:49 J -21445686.70 -21445686.59 -21445686.47 0.2641 0.1827

Mercury -63425-05-31 15:21 J -21444406.97 -21444406.86 -21444406.75 0.2690 0.0262

Mercury -63412-06-03 09:06 J -21439656.22 -21439656.12 -21439656.01 0.2692 0.0794

Mercury -63409-11-23 14:09 J -21438387.01 -21438386.91 -21438386.82 0.2646 0.2083

Mercury -63405-05-27 08:23 J -21437106.21 -21437106.15 -21437106.09 0.2686 0.2172

Venus -63404-03-21 02:37 J -21436808.55 -21436808.39 -21436808.22 0.2626 0.0098

Mercury -63399-06-06 02:52 J -21434905.46 -21434905.38 -21434905.30 0.2694 0.1839

Mercury -63396-11-26 21:06 J -21433635.77 -21433635.62 -21433635.46 0.2644 0.0099

Mercury -63392-05-30 02:23 J -21432355.50 -21432355.40 -21432355.30 0.2688 0.1114

Mercury -63383-11-30 04:33 J -21428884.39 -21428884.31 -21428884.22 0.2641 0.2231

Mercury -63379-06-01 20:09 J -21427604.77 -21427604.66 -21427604.55 0.2690 0.0052

Mercury -63366-06-04 13:54 J -21422854.02 -21422853.92 -21422853.82 0.2692 0.1001

Mercury -63363-11-24 20:37 J -21421584.76 -21421584.64 -21421584.52 0.2646 0.1691

Mercury -63359-05-28 13:11 J -21420304.02 -21420303.95 -21420303.87 0.2686 0.1959

Mercury -63353-06-06 07:40 J -21418103.25 -21418103.18 -21418103.11 0.2694 0.2043

Mercury -63350-11-28 03:49 J -21416833.49 -21416833.34 -21416833.18 0.2643 0.0460

Mercury -63346-05-31 07:11 J -21415553.31 -21415553.20 -21415553.10 0.2688 0.0898

Mercury -63333-06-02 00:57 J -21410802.57 -21410802.46 -21410802.35 0.2690 0.0160

Mercury -63320-06-04 18:42 J -21406051.81 -21406051.72 -21406051.62 0.2692 0.1207

Mercury -63317-11-25 03:21 J -21404782.50 -21404782.36 -21404782.22 0.2646 0.1286

Mercury -63313-05-28 17:59 J -21403501.83 -21403501.75 -21403501.66 0.2686 0.1751

Mercury -63307-06-07 12:28 J -21401301.04 -21401300.98 -21401300.92 0.2694 0.2247

Mercury -63304-11-28 10:33 J -21400031.21 -21400031.06 -21400030.91 0.2643 0.0859

Mercury -63300-05-31 11:59 J -21398751.11 -21398751.00 -21398750.89 0.2688 0.0686

Venus -63291-09-16 12:57 J -21395356.11 -21395355.96 -21395355.81 0.2708 0.0527

Mercury -63287-06-03 05:45 J -21394000.37 -21394000.26 -21394000.15 0.2691 0.0377

Mercury -63280-05-27 05:01 J -21391450.32 -21391450.29 -21391450.27 0.2684 0.2604

Mercury -63274-06-05 23:30 J -21389249.61 -21389249.52 -21389249.42 0.2693 0.1417

Mercury -63271-11-26 10:04 J -21387980.23 -21387980.08 -21387979.93 0.2645 0.0889

Mercury -63267-05-29 23:01 J -21386699.63 -21386699.54 -21386699.45 0.2686 0.1538

Mercury -63261-06-07 17:16 J -21384498.82 -21384498.78 -21384498.73 0.2695 0.2451

Mercury -63258-11-29 17:16 J -21383228.92 -21383228.78 -21383228.64 0.2643 0.1267

Mercury -63254-06-01 16:47 J -21381948.91 -21381948.80 -21381948.69 0.2689 0.0479

Mercury -63241-06-03 10:33 J -21377198.16 -21377198.06 -21377197.95 0.2691 0.0583

Mercury -63238-11-24 09:35 J -21375929.12 -21375929.10 -21375929.07 0.2647 0.2605

Mercury -63234-05-28 09:49 J -21374648.14 -21374648.09 -21374648.04 0.2684 0.2388

Mercury -63228-06-06 04:33 J -21372447.40 -21372447.31 -21372447.23 0.2693 0.1624

Mercury -63225-11-26 16:47 J -21371177.96 -21371177.80 -21371177.65 0.2645 0.0486

Mercury -63221-05-30 03:49 J -21369897.44 -21369897.34 -21369897.25 0.2687 0.1330

Mercury -63215-06-08 22:04 J -21367696.59 -21367696.58 -21367696.56 0.2695 0.2656

Mercury -63212-11-29 23:59 J -21366426.62 -21366426.50 -21366426.38 0.2642 0.1672

Mercury -63208-06-01 21:35 J -21365146.71 -21365146.60 -21365146.49 0.2689 0.0276

Mercury -63195-06-04 15:35 J -21360395.96 -21360395.85 -21360395.75 0.2691 0.0788

Mercury -63192-11-24 16:18 J -21359126.91 -21359126.82 -21359126.74 0.2647 0.2213

Mercury -63188-05-28 14:37 J -21357845.95 -21357845.89 -21357845.83 0.2685 0.2178

Mercury -63182-06-07 09:21 J -21355645.19 -21355645.11 -21355645.04 0.2693 0.1826

Mercury -63179-11-27 23:16 J -21354375.69 -21354375.53 -21354375.37 0.2644 0.0093

Mercury -63175-05-31 08:37 J -21353095.24 -21353095.14 -21353095.04 0.2687 0.1115

Mercury -63166-12-01 06:42 J -21349624.32 -21349624.22 -21349624.12 0.2642 0.2079

Mercury -63162-06-03 02:23 J -21348344.51 -21348344.40 -21348344.29 0.2689 0.0107

Venus -63161-03-21 03:49 J -21348052.50 -21348052.34 -21348052.18 0.2625 0.0025

Mercury -63149-06-04 20:23 J -21343593.76 -21343593.65 -21343593.55 0.2691 0.0990

Mercury -63146-11-25 22:47 J -21342324.66 -21342324.55 -21342324.43 0.2647 0.1818

Mercury -63142-05-29 19:25 J -21341043.76 -21341043.69 -21341043.61 0.2685 0.1969

Mercury -63136-06-07 14:09 J -21338842.98 -21338842.91 -21338842.84 0.2693 0.2029

Mercury -63133-11-28 05:59 J -21337573.41 -21337573.25 -21337573.09 0.2644 0.0313

Mercury -63129-05-31 13:25 J -21336293.04 -21336292.94 -21336292.84 0.2687 0.0908

Mercury -63120-12-01 13:25 J -21332822.00 -21332821.94 -21332821.89 0.2641 0.2477

Mercury -63116-06-03 07:25 J -21331542.30 -21331542.19 -21331542.09 0.2690 0.0184

Mercury -63103-06-06 01:11 J -21326791.55 -21326791.45 -21326791.36 0.2692 0.1195

Mercury -63100-11-26 05:30 J -21325522.40 -21325522.27 -21325522.14 0.2646 0.1425

Mercury -63096-05-30 00:28 J -21324241.57 -21324241.48 -21324241.40 0.2686 0.1760

Mercury -63090-06-08 18:57 J -21322040.77 -21322040.71 -21322040.65 0.2694 0.2232

Mercury -63087-11-29 12:28 J -21320771.13 -21320770.98 -21320770.82 0.2644 0.0714

Mercury -63083-06-01 18:13 J -21319490.84 -21319490.74 -21319490.63 0.2688 0.0699

Mercury -63070-06-04 12:13 J -21314740.10 -21314739.99 -21314739.89 0.2690 0.0365

Mercury -63063-05-28 11:16 J -21312190.05 -21312190.03 -21312190.01 0.2684 0.2604

Mercury -63057-06-06 05:59 J -21309989.34 -21309989.25 -21309989.16 0.2692 0.1401

Mercury -63054-11-27 12:13 J -21308720.14 -21308719.99 -21308719.85 0.2646 0.1028

Mercury -63050-05-31 05:16 J -21307439.37 -21307439.28 -21307439.19 0.2686 0.1546

Venus -63048-09-16 14:23 J -21306600.05 -21306599.90 -21306599.74 0.2709 0.0622

Mercury -63044-06-08 23:45 J -21305238.56 -21305238.51 -21305238.47 0.2694 0.2435

Mercury -63041-11-29 19:11 J -21303968.84 -21303968.70 -21303968.55 0.2643 0.1113

Mercury -63037-06-01 23:01 J -21302688.64 -21302688.54 -21302688.43 0.2688 0.0498

Mercury -63024-06-04 17:01 J -21297937.90 -21297937.79 -21297937.69 0.2690 0.0565

Mercury -63017-05-28 16:04 J -21295387.88 -21295387.83 -21295387.78 0.2684 0.2395

Mercury -63011-06-07 10:47 J -21293187.14 -21293187.05 -21293186.96 0.2692 0.1602

Mercury -63008-11-27 18:42 J -21291917.87 -21291917.72 -21291917.57 0.2646 0.0632

Mercury -63004-05-31 10:04 J -21290637.18 -21290637.08 -21290636.98 0.2686 0.1332

63RD MILLENNIUM BCE

This is a list of transits visible from Earth in the 63rd millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
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Mercury -62998-06-10 04:33 J -21288436.33 -21288436.31 -21288436.29 0.2694 0.2636

Mercury -62995-12-01 01:54 J -21287166.55 -21287166.42 -21287166.29 0.2643 0.1513

Mercury -62991-06-03 04:04 J -21285886.44 -21285886.33 -21285886.23 0.2688 0.0297

Mercury -62978-06-05 21:49 J -21281135.70 -21281135.59 -21281135.49 0.2690 0.0768

Mercury -62975-11-25 18:28 J -21279866.80 -21279866.73 -21279866.66 0.2648 0.2338

Mercury -62971-05-29 20:52 J -21278585.69 -21278585.63 -21278585.56 0.2684 0.2184

Mercury -62965-06-07 15:35 J -21276384.93 -21276384.85 -21276384.77 0.2693 0.1807

Mercury -62962-11-29 01:25 J -21275115.60 -21275115.44 -21275115.28 0.2645 0.0230

Mercury -62958-06-01 14:52 J -21273834.98 -21273834.88 -21273834.78 0.2686 0.1126

Mercury -62949-12-01 08:37 J -21270364.25 -21270364.14 -21270364.03 0.2643 0.1913

Mercury -62945-06-03 08:52 J -21269084.24 -21269084.13 -21269084.02 0.2689 0.0090

Mercury -62932-06-06 02:37 J -21264333.49 -21264333.39 -21264333.29 0.2691 0.0977

Mercury -62929-11-26 00:57 J -21263064.56 -21263064.46 -21263064.35 0.2647 0.1947

Mercury -62925-05-30 01:54 J -21261783.50 -21261783.42 -21261783.35 0.2685 0.1978

Mercury -62919-06-08 20:23 J -21259582.72 -21259582.65 -21259582.58 0.2693 0.2012

Venus -62918-03-22 04:33 J -21259296.47 -21259296.31 -21259296.15 0.2625 0.0019

Mercury -62916-11-29 08:09 J -21258313.32 -21258313.16 -21258313.01 0.2645 0.0180

Mercury -62912-06-01 19:40 J -21257032.78 -21257032.68 -21257032.57 0.2687 0.0917

Mercury -62903-12-02 15:21 J -21253561.93 -21253561.86 -21253561.79 0.2642 0.2319

Mercury -62899-06-04 13:40 J -21252282.04 -21252281.93 -21252281.82 0.2689 0.0142

Mercury -62886-06-07 07:25 J -21247531.29 -21247531.19 -21247531.09 0.2691 0.1181

Mercury -62883-11-27 07:40 J -21246262.31 -21246262.18 -21246262.05 0.2647 0.1556

Mercury -62879-05-31 06:42 J -21244981.31 -21244981.22 -21244981.14 0.2685 0.1763

Mercury -62873-06-09 01:11 J -21242780.51 -21242780.45 -21242780.39 0.2693 0.2218

Mercury -62870-11-30 14:37 J -21241511.04 -21241510.89 -21241510.73 0.2644 0.0569

Mercury -62866-06-03 00:28 J -21240230.58 -21240230.48 -21240230.37 0.2687 0.0716

Mercury -62853-06-04 18:28 J -21235479.84 -21235479.73 -21235479.62 0.2689 0.0344

Mercury -62846-05-29 17:30 J -21232929.79 -21232929.77 -21232929.75 0.2683 0.2613

Mercury -62840-06-07 12:13 J -21230729.08 -21230728.99 -21230728.89 0.2691 0.1386

Mercury -62837-11-27 14:09 J -21229460.05 -21229459.91 -21229459.76 0.2647 0.1166

Mercury -62833-05-31 11:30 J -21228179.11 -21228179.02 -21228178.93 0.2685 0.1552

Mercury -62827-06-10 05:59 J -21225978.29 -21225978.25 -21225978.20 0.2693 0.2416

Mercury -62824-11-30 21:21 J -21224708.76 -21224708.61 -21224708.46 0.2644 0.0960

Mercury -62820-06-03 05:30 J -21223428.38 -21223428.27 -21223428.17 0.2687 0.0504

Mercury -62807-06-05 23:16 J -21218677.64 -21218677.53 -21218677.42 0.2689 0.0548

Venus -62805-09-16 15:49 J -21217843.99 -21217843.84 -21217843.69 0.2709 0.0759

Mercury -62800-05-29 22:18 J -21216127.61 -21216127.57 -21216127.52 0.2683 0.2402

Mercury -62794-06-08 17:01 J -21213926.87 -21213926.79 -21213926.70 0.2692 0.1589

Mercury -62791-11-28 20:52 J -21212657.78 -21212657.63 -21212657.48 0.2646 0.0771

Mercury -62787-06-01 16:18 J -21211376.91 -21211376.82 -21211376.72 0.2685 0.1344

Mercury -62781-06-10 10:47 J -21209176.07 -21209176.05 -21209176.02 0.2694 0.2619

Mercury -62778-12-02 04:04 J -21207906.47 -21207906.33 -21207906.20 0.2644 0.1358

Mercury -62774-06-04 10:18 J -21206626.18 -21206626.07 -21206625.96 0.2688 0.0294

Mercury -62761-06-06 04:04 J -21201875.43 -21201875.33 -21201875.22 0.2690 0.0759

Mercury -62758-11-26 20:37 J -21200606.69 -21200606.64 -21200606.59 0.2649 0.2470

Mercury -62754-05-31 03:06 J -21199325.43 -21199325.37 -21199325.30 0.2684 0.2194

Mercury -62748-06-08 21:49 J -21197124.67 -21197124.59 -21197124.51 0.2692 0.1794

Mercury -62745-11-29 03:21 J -21195855.51 -21195855.36 -21195855.20 0.2646 0.0390

Mercury -62741-06-01 21:06 J -21194574.72 -21194574.62 -21194574.52 0.2686 0.1136

Mercury -62732-12-02 10:33 J -21191104.17 -21191104.06 -21191103.94 0.2643 0.1755

Mercury -62728-06-04 15:06 J -21189823.98 -21189823.87 -21189823.76 0.2688 0.0085

Mercury -62715-06-07 08:52 J -21185073.23 -21185073.13 -21185073.02 0.2690 0.0961

Mercury -62712-11-27 03:21 J -21183804.46 -21183804.36 -21183804.27 0.2648 0.2081

Mercury -62708-05-31 08:09 J -21182523.24 -21182523.16 -21182523.09 0.2684 0.1979

Mercury -62702-06-10 02:52 J -21180322.46 -21180322.38 -21180322.31 0.2692 0.1997

Mercury -62699-11-30 10:04 J -21179053.24 -21179053.08 -21179052.92 0.2646 0.0054

Mercury -62695-06-03 01:54 J -21177772.52 -21177772.42 -21177772.31 0.2686 0.0933

Mercury -62686-12-03 17:16 J -21174301.87 -21174301.78 -21174301.69 0.2643 0.2150

Mercury -62682-06-05 19:54 J -21173021.78 -21173021.67 -21173021.56 0.2688 0.0126

Venus -62675-03-22 05:16 J -21170540.44 -21170540.28 -21170540.12 0.2624 0.0051

Mercury -62669-06-07 13:40 J -21168271.02 -21168270.93 -21168270.83 0.2690 0.1171

Mercury -62666-11-28 09:49 J -21167002.21 -21167002.09 -21167001.97 0.2648 0.1687

Mercury -62662-06-01 12:57 J -21165721.04 -21165720.96 -21165720.88 0.2684 0.1769

Mercury -62656-06-10 07:40 J -21163520.25 -21163520.18 -21163520.12 0.2692 0.2195

Mercury -62653-11-30 16:47 J -21162250.96 -21162250.80 -21162250.64 0.2645 0.0413

Mercury -62649-06-03 06:57 J -21160970.32 -21160970.21 -21160970.11 0.2686 0.0717

Mercury -62640-12-03 23:59 J -21157499.54 -21157499.50 -21157499.46 0.2643 0.2553

Mercury -62636-06-06 00:42 J -21156219.58 -21156219.47 -21156219.36 0.2688 0.0338

Mercury -62629-05-29 23:45 J -21153669.53 -21153669.51 -21153669.49 0.2682 0.2619

Mercury -62623-06-08 18:42 J -21151468.82 -21151468.72 -21151468.63 0.2691 0.1369

Mercury -62620-11-28 16:33 J -21150199.95 -21150199.81 -21150199.68 0.2648 0.1301

Mercury -62616-06-01 17:45 J -21148918.85 -21148918.76 -21148918.67 0.2684 0.1561

Mercury -62610-06-11 12:28 J -21146718.03 -21146717.98 -21146717.94 0.2693 0.2399

Mercury -62607-12-01 23:30 J -21145448.67 -21145448.52 -21145448.37 0.2645 0.0811

Mercury -62603-06-04 11:45 J -21144168.12 -21144168.01 -21144167.90 0.2687 0.0509

Mercury -62590-06-07 05:45 J -21139417.37 -21139417.26 -21139417.16 0.2689 0.0549

Mercury -62583-05-31 04:33 J -21136867.35 -21136867.31 -21136867.26 0.2682 0.2410

Mercury -62577-06-08 23:30 J -21134666.61 -21134666.52 -21134666.43 0.2691 0.1574

Mercury -62574-11-29 23:01 J -21133397.69 -21133397.54 -21133397.39 0.2647 0.0912

Mercury -62570-06-02 22:33 J -21132116.65 -21132116.56 -21132116.46 0.2685 0.1354

Mercury -62564-06-11 17:16 J -21129915.81 -21129915.78 -21129915.76 0.2693 0.2597

Venus -62562-09-17 17:30 J -21129087.92 -21129087.77 -21129087.62 0.2710 0.0838

Mercury -62561-12-02 05:59 J -21128646.39 -21128646.25 -21128646.10 0.2645 0.1204

Mercury -62557-06-04 16:33 J -21127365.92 -21127365.81 -21127365.70 0.2687 0.0302

Mercury -62544-06-07 10:33 J -21122615.17 -21122615.06 -21122614.96 0.2689 0.0745

Mercury -62541-11-26 23:01 J -21121346.57 -21121346.54 -21121346.52 0.2649 0.2595

Mercury -62537-05-31 09:35 J -21120065.17 -21120065.10 -21120065.04 0.2683 0.2201

Mercury -62531-06-10 04:18 J -21117864.40 -21117864.32 -21117864.24 0.2691 0.1774

Mercury -62528-11-30 05:45 J -21116595.42 -21116595.26 -21116595.11 0.2647 0.0521

Mercury -62524-06-03 03:21 J -21115314.45 -21115314.36 -21115314.26 0.2685 0.1149

Mercury -62515-12-03 12:42 J -21111844.09 -21111843.97 -21111843.84 0.2644 0.1598

Mercury -62511-06-05 21:21 J -21110563.72 -21110563.61 -21110563.50 0.2687 0.0110

Mercury -62498-06-08 15:21 J -21105812.97 -21105812.86 -21105812.76 0.2689 0.0948

Mercury -62495-11-28 05:30 J -21104544.36 -21104544.27 -21104544.19 0.2649 0.2212

Mercury -62491-06-01 14:23 J -21103262.97 -21103262.90 -21103262.83 0.2683 0.1988

Mercury -62485-06-10 09:06 J -21101062.19 -21101062.12 -21101062.05 0.2691 0.1974

Mercury -62482-12-01 12:13 J -21099793.14 -21099792.99 -21099792.83 0.2646 0.0136

Mercury -62478-06-04 08:23 J -21098512.26 -21098512.15 -21098512.05 0.2685 0.0939

Mercury -62469-12-03 19:25 J -21095041.79 -21095041.69 -21095041.59 0.2644 0.1992

Mercury -62465-06-06 02:09 J -21093761.52 -21093761.41 -21093761.30 0.2687 0.0141

Mercury -62452-06-08 20:09 J -21089010.76 -21089010.66 -21089010.56 0.2690 0.1146

Mercury -62449-11-28 11:59 J -21087742.11 -21087742.00 -21087741.89 0.2649 0.1829

Mercury -62445-06-01 19:11 J -21086460.78 -21086460.70 -21086460.62 0.2683 0.1780

Mercury -62439-06-11 13:54 J -21084259.98 -21084259.92 -21084259.86 0.2692 0.2175

Mercury -62436-12-01 18:57 J -21082990.87 -21082990.71 -21082990.55 0.2646 0.0261

Venus -62432-03-22 05:59 J -21081784.42 -21081784.25 -21081784.09 0.2623 0.0094

Mercury -62432-06-04 13:11 J -21081710.06 -21081709.95 -21081709.84 0.2686 0.0729

Mercury -62423-12-05 02:09 J -21078239.48 -21078239.41 -21078239.35 0.2643 0.2388

Mercury -62419-06-07 07:11 J -21076959.31 -21076959.20 -21076959.09 0.2688 0.0329

Mercury -62412-05-31 05:59 J -21074409.27 -21074409.25 -21074409.23 0.2682 0.2627

Mercury -62406-06-10 00:57 J -21072208.56 -21072208.46 -21072208.37 0.2690 0.1351

Mercury -62403-11-29 18:42 J -21070939.85 -21070939.72 -21070939.59 0.2648 0.1443

Mercury -62399-06-02 23:59 J -21069658.59 -21069658.50 -21069658.41 0.2684 0.1571

Mercury -62393-06-11 18:42 J -21067457.77 -21067457.72 -21067457.67 0.2692 0.2375

Mercury -62390-12-03 01:25 J -21066188.59 -21066188.44 -21066188.28 0.2646 0.0649

Mercury -62386-06-05 17:59 J -21064907.86 -21064907.75 -21064907.64 0.2686 0.0522

Mercury -62373-06-07 11:59 J -21060157.11 -21060157.00 -21060156.90 0.2688 0.0525

Mercury -62366-06-01 10:47 J -21057607.09 -21057607.05 -21057607.00 0.2682 0.2418

Mercury -62360-06-10 05:45 J -21055406.35 -21055406.26 -21055406.17 0.2690 0.1551

Mercury -62357-11-30 01:11 J -21054137.59 -21054137.45 -21054137.30 0.2648 0.1052

Mercury -62353-06-03 04:47 J -21052856.39 -21052856.30 -21052856.20 0.2684 0.1367

Mercury -62347-06-12 23:30 J -21050655.55 -21050655.52 -21050655.49 0.2692 0.2577

Mercury -62344-12-03 08:09 J -21049386.30 -21049386.16 -21049386.01 0.2645 0.1045

Mercury -62340-06-05 22:47 J -21048105.66 -21048105.55 -21048105.44 0.2686 0.0325

Mercury -62327-06-08 16:47 J -21043354.91 -21043354.80 -21043354.70 0.2689 0.0725

Mercury -62320-06-01 15:49 J -21040804.90 -21040804.84 -21040804.78 0.2682 0.2208

Venus -62319-09-17 18:57 J -21040331.85 -21040331.71 -21040331.56 0.2711 0.0956

Mercury -62314-06-11 10:33 J -21038604.14 -21038604.06 -21038603.98 0.2691 0.1755

Mercury -62311-12-01 07:54 J -21037335.32 -21037335.17 -21037335.02 0.2648 0.0660

Mercury -62307-06-04 09:49 J -21036054.19 -21036054.09 -21036053.99 0.2684 0.1157

Mercury -62298-12-04 14:52 J -21032584.01 -21032583.88 -21032583.75 0.2645 0.1441

Mercury -62294-06-07 03:35 J -21031303.46 -21031303.35 -21031303.23 0.2687 0.0158

Mercury -62281-06-08 21:35 J -21026552.70 -21026552.60 -21026552.50 0.2689 0.0927

Mercury -62278-11-29 07:40 J -21025284.25 -21025284.18 -21025284.11 0.2650 0.2342

Mercury -62274-06-02 20:37 J -21024002.71 -21024002.64 -21024002.57 0.2682 0.2000

Mercury -62268-06-11 15:21 J -21021801.93 -21021801.86 -21021801.78 0.2691 0.1955

Mercury -62265-12-01 14:23 J -21020533.05 -21020532.90 -21020532.74 0.2647 0.0284

Mercury -62261-06-04 14:37 J -21019251.99 -21019251.89 -21019251.79 0.2685 0.0950

Mercury -62252-12-04 21:35 J -21015781.72 -21015781.60 -21015781.49 0.2645 0.1833

Mercury -62248-06-07 08:37 J -21014501.25 -21014501.14 -21014501.03 0.2687 0.0124

Mercury -62235-06-10 02:23 J -21009750.50 -21009750.40 -21009750.30 0.2689 0.1131

Mercury -62232-11-29 14:23 J -21008482.01 -21008481.90 -21008481.80 0.2649 0.1961

Mercury -62228-06-03 01:25 J -21007200.52 -21007200.44 -21007200.36 0.2683 0.1792

Mercury -62222-06-12 20:09 J -21004999.72 -21004999.66 -21004999.59 0.2691 0.2159

Mercury -62219-12-02 21:06 J -21003730.78 -21003730.62 -21003730.47 0.2647 0.0121

Mercury -62215-06-05 19:25 J -21002449.80 -21002449.69 -21002449.58 0.2685 0.0743

Mercury -62206-12-06 04:04 J -20998979.41 -20998979.33 -20998979.24 0.2644 0.2221

Mercury -62202-06-08 13:25 J -20997699.05 -20997698.94 -20997698.83 0.2687 0.0306

Mercury -62195-06-01 12:13 J -20995149.01 -20995148.99 -20995148.97 0.2681 0.2636

Venus -62189-03-22 06:13 J -20993028.40 -20993028.24 -20993028.07 0.2623 0.0098

Mercury -62189-06-10 07:11 J -20992948.29 -20992948.20 -20992948.10 0.2689 0.1332

Mercury -62186-11-30 20:52 J -20991679.75 -20991679.63 -20991679.50 0.2649 0.1575

Mercury -62182-06-04 06:13 J -20990398.33 -20990398.24 -20990398.15 0.2683 0.1587

Mercury -62176-06-13 01:11 J -20988197.50 -20988197.45 -20988197.40 0.2691 0.2358

Mercury -62173-12-03 03:35 J -20986928.50 -20986928.35 -20986928.19 0.2646 0.0504

Mercury -62169-06-06 00:13 J -20985647.60 -20985647.49 -20985647.38 0.2685 0.0541

Mercury -62160-12-06 10:47 J -20982177.07 -20982177.05 -20982177.03 0.2644 0.2612

Mercury -62156-06-08 18:13 J -20980896.85 -20980896.74 -20980896.63 0.2688 0.0502

Mercury -62149-06-01 17:01 J -20978346.83 -20978346.79 -20978346.74 0.2681 0.2429

Mercury -62143-06-11 11:59 J -20976146.09 -20976146.00 -20976145.91 0.2690 0.1536

Mercury -62140-12-01 03:21 J -20974877.50 -20974877.36 -20974877.22 0.2649 0.1198

Mercury -62136-06-04 11:16 J -20973596.13 -20973596.03 -20973595.94 0.2684 0.1377

Mercury -62130-06-14 05:59 J -20971395.29 -20971395.25 -20971395.22 0.2692 0.2554

Mercury -62127-12-04 10:18 J -20970126.22 -20970126.07 -20970125.92 0.2646 0.0889

Mercury -62123-06-07 05:01 J -20968845.40 -20968845.29 -20968845.18 0.2686 0.0347

Mercury -62110-06-09 23:01 J -20964094.65 -20964094.54 -20964094.43 0.2688 0.0705

Mercury -62103-06-02 22:04 J -20961544.64 -20961544.58 -20961544.52 0.2681 0.2219

Mercury -62097-06-11 16:47 J -20959343.88 -20959343.80 -20959343.71 0.2690 0.1736

Mercury -62094-12-02 10:04 J -20958075.23 -20958075.08 -20958074.93 0.2648 0.0813

Mercury -62090-06-05 16:04 J -20956793.93 -20956793.83 -20956793.73 0.2684 0.1171

Mercury -62081-12-04 16:47 J -20953323.93 -20953323.80 -20953323.66 0.2646 0.1275

Mercury -62077-06-07 10:04 J -20952043.19 -20952043.08 -20952042.97 0.2686 0.0148

Venus -62076-09-17 20:52 J -20951575.77 -20951575.63 -20951575.49 0.2711 0.1036

Mercury -62064-06-10 03:49 J -20947292.44 -20947292.34 -20947292.23 0.2688 0.0911

Mercury -62061-11-29 10:04 J -20946024.13 -20946024.08 -20946024.03 0.2651 0.2469

Mercury -62057-06-03 02:52 J -20944742.45 -20944742.38 -20944742.31 0.2682 0.2012

Mercury -62051-06-12 21:49 J -20942541.67 -20942541.59 -20942541.52 0.2690 0.1936

Mercury -62048-12-02 16:33 J -20941272.96 -20941272.81 -20941272.65 0.2648 0.0431

Mercury -62044-06-05 20:52 J -20939991.73 -20939991.63 -20939991.53 0.2684 0.0961

Mercury -62035-12-05 23:30 J -20936521.64 -20936521.52 -20936521.40 0.2646 0.1662

Mercury -62031-06-08 14:52 J -20935240.99 -20935240.88 -20935240.77 0.2686 0.0089

Mercury -62018-06-11 08:37 J -20930490.24 -20930490.14 -20930490.04 0.2688 0.1116

Mercury -62015-11-30 16:33 J -20929221.90 -20929221.81 -20929221.71 0.2650 0.2089

Mercury -62011-06-04 07:40 J -20927940.26 -20927940.18 -20927940.10 0.2682 0.1804

Mercury -62005-06-13 02:37 J -20925739.46 -20925739.39 -20925739.33 0.2691 0.2134

Mercury -62002-12-03 23:16 J -20924470.69 -20924470.53 -20924470.37 0.2648 0.0040

62ND MILLENNIUM BCE

This is a list of transits visible from Earth in the 62nd millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-61998-06-07 01:40 J	-20923189.53	-20923189.43	-20923189.32	0.2684	0.0760		
Mercury	-61989-12-06 06:13 J	-20919719.34	-20919719.24	-20919719.14	0.2645	0.2054		
Mercury	-61985-06-08 19:40 J	-20918438.79	-20918438.68	-20918438.57	0.2687	0.0282		
Mercury	-61978-06-02 18:28 J	-20915888.74	-20915888.73	-20915888.72	0.2680	0.2650		
Mercury	-61972-06-11 13:40 J	-20913688.03	-20913687.93	-20913687.84	0.2689	0.1316		
Mercury	-61969-11-30 23:01 J	-20912419.65	-20912419.54	-20912419.42	0.2650	0.1717		
Mercury	-61965-06-04 12:28 J	-20911138.06	-20911137.98	-20911137.89	0.2682	0.1598		
Mercury	-61959-06-14 07:25 J	-20908937.24	-20908937.19	-20908937.14	0.2691	0.2332		
Mercury	-61956-12-04 05:45 J	-20907668.41	-20907668.26	-20907668.10	0.2647	0.0356		
Mercury	-61952-06-07 06:28 J	-20906387.33	-20906387.23	-20906387.12	0.2685	0.0559		
Venus	-61946-03-23 06:42 J	-20904272.38	-20904272.22	-20904272.06	0.2622	0.0096		
Mercury	-61943-12-07 12:57 J	-20902917.02	-20902916.96	-20902916.91	0.2645	0.2448		
Mercury	-61939-06-10 00:28 J	-20901636.59	-20901636.48	-20901636.37	0.2687	0.0487		
Mercury	-61932-06-02 23:16 J	-20899086.57	-20899086.53	-20899086.48	0.2681	0.2440		
Mercury	-61926-06-12 18:28 J	-20896885.82	-20896885.73	-20896885.64	0.2689	0.1513		
Mercury	-61923-12-02 05:45 J	-20895617.40	-20895617.26	-20895617.13	0.2649	0.1335		

Mercury -61919-06-05 17:30 J -20894335.87 -20894335.77 -20894335.68 0.2683 0.1395

Mercury -61913-06-14 12:13 J -20892135.03 -20892134.99 -20892134.96 0.2691 0.2529

Mercury -61910-12-05 12:28 J -20890866.13 -20890865.98 -20890865.83 0.2647 0.0729

Mercury -61906-06-08 11:30 J -20889585.13 -20889585.02 -20889584.91 0.2685 0.0358

Mercury -61893-06-10 05:16 J -20884834.38 -20884834.28 -20884834.17 0.2687 0.0696

Mercury -61886-06-04 04:18 J -20882284.38 -20882284.32 -20882284.26 0.2681 0.2236

Mercury -61880-06-12 23:16 J -20880083.62 -20880083.53 -20880083.45 0.2689 0.1712

Mercury -61877-12-02 12:13 J -20878815.13 -20878814.99 -20878814.84 0.2649 0.0958

Mercury -61873-06-05 22:18 J -20877533.67 -20877533.57 -20877533.47 0.2683 0.1184

Mercury -61864-12-05 18:57 J -20874063.85 -20874063.71 -20874063.56 0.2647 0.1114

Mercury -61860-06-08 16:18 J -20872782.93 -20872782.82 -20872782.71 0.2685 0.0149

Mercury -61847-06-11 10:04 J -20868032.18 -20868032.08 -20868031.97 0.2687 0.0896

Mercury -61844-11-30 12:13 J -20866764.01 -20866763.99 -20866763.96 0.2651 0.2605

Mercury -61840-06-04 09:06 J -20865482.19 -20865482.12 -20865482.05 0.2681 0.2022

Mercury -61834-06-14 04:04 J -20863281.41 -20863281.33 -20863281.26 0.2689 0.1912

Venus -61833-09-17 22:33 J -20862819.70 -20862819.56 -20862819.42 0.2712 0.1138

Mercury -61831-12-03 18:57 J -20862012.87 -20862012.71 -20862012.56 0.2649 0.0575

Mercury -61827-06-07 03:06 J -20860731.47 -20860731.37 -20860731.27 0.2683 0.0980

Mercury -61818-12-07 01:40 J -20857261.56 -20857261.43 -20857261.30 0.2646 0.1500

Mercury -61814-06-09 21:06 J -20855980.73 -20855980.62 -20855980.51 0.2686 0.0060

Mercury -61801-06-11 15:06 J -20851229.97 -20851229.87 -20851229.77 0.2688 0.1092

Mercury -61798-12-01 18:57 J -20849961.79 -20849961.71 -20849961.63 0.2651 0.2230

Mercury -61794-06-05 13:54 J -20848680.00 -20848679.92 -20848679.84 0.2682 0.1816

Mercury -61788-06-14 08:52 J -20846479.20 -20846479.13 -20846479.06 0.2690 0.2109

Mercury -61785-12-04 01:25 J -20845210.60 -20845210.44 -20845210.29 0.2648 0.0198

Mercury -61781-06-07 07:54 J -20843929.27 -20843929.17 -20843929.06 0.2684 0.0775

Mercury -61772-12-07 08:23 J -20840459.26 -20840459.15 -20840459.04 0.2646 0.1890

Mercury -61768-06-10 01:54 J -20839178.53 -20839178.42 -20839178.31 0.2686 0.0270

Mercury -61761-06-03 00:42 J -20836628.48 -20836628.47 -20836628.46 0.2680 0.2659

Mercury -61755-06-12 19:54 J -20834427.77 -20834427.67 -20834427.58 0.2688 0.1290

Mercury -61752-12-02 01:25 J -20833159.55 -20833159.44 -20833159.33 0.2651 0.1851

Mercury -61748-06-05 18:42 J -20831877.80 -20831877.72 -20831877.63 0.2682 0.1613

Mercury -61742-06-15 13:40 J -20829676.98 -20829676.93 -20829676.87 0.2690 0.2305

Mercury -61739-12-05 07:54 J -20828408.32 -20828408.17 -20828408.01 0.2648 0.0206

Mercury -61735-06-08 12:57 J -20827127.07 -20827126.96 -20827126.86 0.2684 0.0574

Mercury -61726-12-08 14:52 J -20823656.96 -20823656.88 -20823656.80 0.2646 0.2270

Mercury -61722-06-11 06:42 J -20822376.32 -20822376.22 -20822376.11 0.2686 0.0481

Mercury -61715-06-04 05:30 J -20819826.31 -20819826.27 -20819826.23 0.2680 0.2454

Mercury -61709-06-13 00:42 J -20817625.56 -20817625.47 -20817625.38 0.2688 0.1490

Mercury -61706-12-03 07:54 J -20816357.30 -20816357.17 -20816357.04 0.2650 0.1475

Venus -61703-03-23 06:57 J -20815516.38 -20815516.21 -20815516.05 0.2622 0.0119

Mercury -61702-06-06 23:45 J -20815075.61 -20815075.51 -20815075.42 0.2682 0.1405

Mercury -61696-06-15 18:28 J -20812874.76 -20812874.73 -20812874.69 0.2690 0.2505

Mercury -61693-12-05 14:37 J -20811606.04 -20811605.89 -20811605.74 0.2648 0.0573

Mercury -61689-06-08 17:45 J -20810324.87 -20810324.76 -20810324.65 0.2684 0.0363

Mercury -61676-06-11 11:45 J -20805574.12 -20805574.01 -20805573.91 0.2686 0.0674

Mercury -61669-06-04 10:33 J -20803024.12 -20803024.06 -20803024.01 0.2680 0.2244

Mercury -61663-06-14 05:30 J -20800823.35 -20800823.27 -20800823.18 0.2689 0.1691

Mercury -61660-12-03 14:37 J -20799555.03 -20799554.89 -20799554.75 0.2650 0.1094

Mercury -61656-06-07 04:33 J -20798273.41 -20798273.31 -20798273.21 0.2682 0.1198

Mercury -61647-12-06 21:21 J -20794803.76 -20794803.61 -20794803.47 0.2647 0.0963

Mercury -61643-06-09 22:33 J -20793522.67 -20793522.56 -20793522.45 0.2685 0.0162

Mercury -61630-06-12 16:33 J -20788771.92 -20788771.81 -20788771.71 0.2687 0.0871

Mercury -61623-06-05 15:21 J -20786221.93 -20786221.86 -20786221.79 0.2681 0.2038

Mercury -61617-06-14 10:18 J -20784021.14 -20784021.07 -20784020.99 0.2689 0.1889

Mercury -61614-12-04 21:06 J -20782752.77 -20782752.62 -20782752.47 0.2650 0.0721

Mercury -61610-06-08 09:21 J -20781471.21 -20781471.11 -20781471.00 0.2683 0.0993

Mercury -61601-12-07 03:49 J -20778001.47 -20778001.34 -20778001.20 0.2647 0.1342

Mercury -61597-06-10 03:21 J -20776720.47 -20776720.36 -20776720.25 0.2685 0.0059

Venus -61590-09-19 00:28 J -20774063.61 -20774063.48 -20774063.34 0.2712 0.1195

Mercury -61584-06-12 21:21 J -20771969.71 -20771969.61 -20771969.51 0.2687 0.1068

Mercury -61581-12-01 21:06 J -20770701.68 -20770701.62 -20770701.55 0.2652 0.2363

Mercury -61577-06-05 20:09 J -20769419.74 -20769419.66 -20769419.58 0.2681 0.1831

Mercury -61571-06-15 15:06 J -20767218.93 -20767218.87 -20767218.80 0.2689 0.2088

Mercury -61568-12-05 03:35 J -20765950.50 -20765950.35 -20765950.19 0.2649 0.0345

Mercury -61564-06-08 14:09 J -20764669.01 -20764668.91 -20764668.80 0.2683 0.0798

Mercury -61555-12-08 10:33 J -20761199.18 -20761199.06 -20761198.95 0.2647 0.1723

Mercury -61551-06-11 08:09 J -20759918.27 -20759918.16 -20759918.05 0.2685 0.0261

Mercury -61544-06-04 06:57 J -20757368.21 -20757368.21 -20757368.21 0.2679 0.2671

Mercury -61538-06-14 02:09 J -20755167.51 -20755167.41 -20755167.31 0.2687 0.1270

Mercury -61535-12-03 03:49 J -20753899.45 -20753899.34 -20753899.24 0.2651 0.1989

Mercury -61531-06-07 01:11 J -20752617.54 -20752617.45 -20752617.37 0.2681 0.1630

Mercury -61525-06-15 19:54 J -20750416.72 -20750416.67 -20750416.61 0.2689 0.2286

Mercury -61522-12-06 10:18 J -20749148.23 -20749148.07 -20749147.92 0.2649 0.0075

Mercury -61518-06-09 19:11 J -20747866.81 -20747866.70 -20747866.60 0.2683 0.0589

Mercury -61509-12-08 17:01 J -20744396.88 -20744396.79 -20744396.70 0.2646 0.2106

Mercury -61505-06-11 13:11 J -20743116.06 -20743115.95 -20743115.85 0.2686 0.0458

Mercury -61498-06-05 11:45 J -20740566.05 -20740566.01 -20740565.97 0.2679 0.2464

Mercury -61492-06-14 06:57 J -20738365.30 -20738365.21 -20738365.12 0.2688 0.1468

Mercury -61489-12-03 10:18 J -20737097.19 -20737097.07 -20737096.95 0.2651 0.1615

Mercury -61485-06-07 05:59 J -20735815.35 -20735815.25 -20735815.16 0.2681 0.1418

Mercury -61479-06-17 00:57 J -20733614.50 -20733614.46 -20733614.42 0.2690 0.2482

Mercury -61476-12-06 16:47 J -20732345.95 -20732345.80 -20732345.64 0.2648 0.0418

Mercury -61472-06-09 23:59 J -20731064.61 -20731064.50 -20731064.39 0.2684 0.0386

Mercury -61463-12-09 23:45 J -20727594.56 -20727594.51 -20727594.46 0.2646 0.2487

Venus -61460-03-23 06:57 J -20726760.37 -20726760.21 -20726760.04 0.2621 0.0095

Mercury -61459-06-12 17:59 J -20726313.86 -20726313.75 -20726313.65 0.2686 0.0649

Mercury -61452-06-05 16:47 J -20723763.86 -20723763.80 -20723763.75 0.2680 0.2258

Mercury -61446-06-15 11:45 J -20721563.09 -20721563.01 -20721562.92 0.2688 0.1668

Mercury -61443-12-04 16:47 J -20720294.94 -20720294.80 -20720294.66 0.2651 0.1240

Mercury -61439-06-08 10:47 J -20719013.15 -20719013.05 -20719012.95 0.2682 0.1213

Mercury -61433-06-17 05:45 J -20716812.27 -20716812.26 -20716812.26 0.2690 0.2674

Mercury -61430-12-07 23:30 J -20715543.67 -20715543.52 -20715543.37 0.2648 0.0798

Mercury -61426-06-11 04:47 J -20714262.41 -20714262.30 -20714262.19 0.2684 0.0179

Mercury -61413-06-12 22:47 J -20709511.65 -20709511.55 -20709511.45 0.2686 0.0847

Mercury -61406-06-06 21:35 J -20706961.67 -20706961.60 -20706961.53 0.2680 0.2051

Mercury -61400-06-15 16:47 J -20704760.88 -20704760.80 -20704760.73 0.2688 0.1866

Mercury -61397-12-04 23:30 J -20703492.67 -20703492.52 -20703492.38 0.2650 0.0863

Mercury -61393-06-08 15:35 J -20702210.95 -20702210.85 -20702210.74 0.2682 0.1013

Mercury -61384-12-08 05:59 J -20698741.39 -20698741.25 -20698741.11 0.2648 0.1180

Mercury -61380-06-11 09:35 J -20697460.21 -20697460.10 -20697459.99 0.2684 0.0098

Mercury -61367-06-14 03:35 J -20692709.45 -20692709.35 -20692709.25 0.2686 0.1052

Mercury -61364-12-02 23:30 J -20691441.57 -20691441.52 -20691441.46 0.2652 0.2488

Mercury -61360-06-07 02:23 J -20690159.48 -20690159.40 -20690159.32 0.2680 0.1848

Mercury -61354-06-16 21:35 J -20687958.67 -20687958.60 -20687958.53 0.2688 0.2063

Mercury -61351-12-06 05:59 J -20686690.40 -20686690.25 -20686690.10 0.2650 0.0489

Mercury -61347-06-09 20:37 J -20685408.75 -20685408.64 -20685408.54 0.2683 0.0814

Venus -61347-09-19 02:37 J -20685307.53 -20685307.39 -20685307.26 0.2713 0.1271

Mercury -61338-12-09 12:42 J -20681939.10 -20681938.97 -20681938.85 0.2647 0.1560

Mercury -61334-06-12 14:37 J -20680658.00 -20680657.89 -20680657.78 0.2685 0.0245

Mercury -61321-06-14 08:23 J -20675907.24 -20675907.15 -20675907.05 0.2687 0.1249

Mercury -61318-12-04 06:13 J -20674639.33 -20674639.24 -20674639.15 0.2652 0.2121

Mercury -61314-06-08 07:11 J -20673357.28 -20673357.20 -20673357.11 0.2680 0.1643

Mercury -61308-06-17 02:23 J -20671156.46 -20671156.40 -20671156.34 0.2689 0.2261

Mercury -61305-12-06 12:28 J -20669888.13 -20669887.98 -20669887.82 0.2649 0.0122

Mercury -61301-06-10 01:25 J -20668606.55 -20668606.44 -20668606.33 0.2683 0.0608

Mercury -61292-12-09 19:11 J -20665136.80 -20665136.70 -20665136.59 0.2647 0.1941

Mercury -61288-06-12 19:25 J -20663855.80 -20663855.69 -20663855.58 0.2685 0.0427

Mercury -61281-06-05 17:59 J -20661305.79 -20661305.75 -20661305.71 0.2679 0.2480

Mercury -61275-06-15 13:25 J -20659105.04 -20659104.94 -20659104.85 0.2687 0.1450

Mercury -61272-12-04 12:42 J -20657837.09 -20657836.97 -20657836.86 0.2652 0.1750

Mercury -61268-06-08 12:13 J -20656555.09 -20656554.99 -20656554.90 0.2681 0.1437

Mercury -61262-06-18 07:11 J -20654354.24 -20654354.20 -20654354.16 0.2689 0.2453

Mercury -61259-12-07 19:11 J -20653085.86 -20653085.70 -20653085.55 0.2649 0.0271

Mercury -61255-06-11 06:13 J -20651804.35 -20651804.24 -20651804.13 0.2683 0.0400

Mercury -61246-12-11 01:54 J -20648334.50 -20648334.42 -20648334.35 0.2647 0.2321

Mercury -61242-06-14 00:13 J -20647053.60 -20647053.49 -20647053.38 0.2685 0.0626

Mercury -61235-06-06 23:01 J -20644503.60 -20644503.54 -20644503.49 0.2679 0.2275

Mercury -61229-06-15 18:13 J -20642302.83 -20642302.74 -20642302.66 0.2687 0.1643

Mercury -61226-12-05 19:11 J -20641034.83 -20641034.70 -20641034.57 0.2651 0.1383

Mercury -61222-06-09 17:01 J -20639752.89 -20639752.79 -20639752.69 0.2681 0.1232

Venus -61217-03-23 07:11 J -20638004.37 -20638004.20 -20638004.04 0.2621 0.0113

Mercury -61216-06-18 11:59 J -20637552.01 -20637552.00 -20637551.98 0.2689 0.2649

Mercury -61213-12-08 01:40 J -20636283.58 -20636283.43 -20636283.28 0.2649 0.0640

Mercury -61209-06-11 11:01 J -20635002.15 -20635002.04 -20635001.93 0.2683 0.0211

Mercury -61196-06-14 05:01 J -20630251.39 -20630251.29 -20630251.18 0.2686 0.0829

Mercury -61189-06-07 03:49 J -20627701.41 -20627701.34 -20627701.27 0.2679 0.2067

Mercury -61183-06-16 23:01 J -20625500.62 -20625500.54 -20625500.46 0.2687 0.1841

Mercury -61180-12-06 01:40 J -20624232.57 -20624232.43 -20624232.29 0.2651 0.1012

Mercury -61176-06-09 21:49 J -20622950.69 -20622950.59 -20622950.48 0.2682 0.1031

Mercury -61167-12-09 08:09 J -20619481.30 -20619481.16 -20619481.01 0.2649 0.1011

Mercury -61163-06-12 16:04 J -20618199.95 -20618199.83 -20618199.72 0.2684 0.0106

Mercury -61150-06-15 09:49 J -20613449.19 -20613449.09 -20613448.98 0.2686 0.1027

Mercury -61147-12-04 02:09 J -20612181.43 -20612181.41 -20612181.39 0.2653 0.2617

Mercury -61143-06-08 08:37 J -20610899.22 -20610899.14 -20610899.06 0.2680 0.1861

Mercury -61137-06-17 03:49 J -20608698.41 -20608698.34 -20608698.27 0.2688 0.2036

Mercury -61134-12-07 08:23 J -20607430.31 -20607430.15 -20607430.00 0.2651 0.0642

Mercury -61130-06-11 02:52 J -20606148.49 -20606148.38 -20606148.28 0.2682 0.0827

Mercury -61121-12-09 14:52 J -20602679.02 -20602678.88 -20602678.75 0.2648 0.1393

Mercury -61117-06-12 20:52 J -20601397.74 -20601397.63 -20601397.52 0.2684 0.0208

Mercury -61104-06-15 14:52 J -20596646.98 -20596646.88 -20596646.79 0.2686 0.1228

Venus -61104-09-19 04:47 J -20596551.43 -20596551.30 -20596551.16 0.2713 0.1312

Mercury -61101-12-04 08:37 J -20595379.22 -20595379.14 -20595379.06 0.2653 0.2249

Mercury -61097-06-08 13:40 J -20594097.02 -20594096.93 -20594096.85 0.2680 0.1659

Mercury -61091-06-18 08:37 J -20591896.20 -20591896.14 -20591896.08 0.2688 0.2231

Mercury -61088-12-07 14:52 J -20590628.04 -20590627.88 -20590627.73 0.2650 0.0262

Mercury -61084-06-11 07:40 J -20589346.29 -20589346.18 -20589346.07 0.2682 0.0620

Mercury -61075-12-10 21:21 J -20585876.72 -20585876.61 -20585876.49 0.2648 0.1772

Mercury -61071-06-14 01:40 J -20584595.54 -20584595.43 -20584595.32 0.2684 0.0408

Mercury -61064-06-07 00:13 J -20582045.53 -20582045.49 -20582045.45 0.2678 0.2494

Mercury -61058-06-16 19:40 J -20579844.77 -20579844.68 -20579844.59 0.2686 0.1421

Mercury -61055-12-05 15:06 J -20578576.98 -20578576.87 -20578576.76 0.2653 0.1886

Mercury -61051-06-09 18:28 J -20577294.83 -20577294.73 -20577294.64 0.2680 0.1454

Mercury -61045-06-18 13:25 J -20575093.98 -20575093.94 -20575093.89 0.2688 0.2427

Mercury -61042-12-08 21:21 J -20573825.76 -20573825.61 -20573825.45 0.2650 0.0118

Mercury -61038-06-12 12:28 J -20572544.09 -20572543.98 -20572543.87 0.2682 0.0422

Mercury -61029-12-11 04:04 J -20569074.42 -20569074.33 -20569074.24 0.2647 0.2153

Mercury -61025-06-14 06:28 J -20567793.33 -20567793.23 -20567793.12 0.2685 0.0611

Mercury -61018-06-08 05:01 J -20565243.34 -20565243.29 -20565243.23 0.2678 0.2291

Mercury -61012-06-17 00:28 J -20563042.57 -20563042.48 -20563042.39 0.2687 0.1620

Mercury -61009-12-05 21:35 J -20561774.73 -20561774.60 -20561774.48 0.2652 0.1520

Mercury -61005-06-09 23:16 J -20560492.63 -20560492.53 -20560492.43 0.2681 0.1250

61ST MILLENNIUM BCE

This is a list of transits visible from Earth in the 61st millennium BCE.

PLANET	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
	TRANSIT							
	TIME							
Mercury	-60999-06-19 18:13 J	-20558291.76	-20558291.74	-20558291.71	0.2689	0.2623		
Mercury	-60996-12-09 03:49 J	-20557023.49	-20557023.34	-20557023.18	0.2650	0.0484		
Mercury	-60992-06-12 17:16 J	-20555741.89	-20555741.78	-20555741.66	0.2683	0.0241		
Mercury	-60983-12-12 10:33 J	-20552272.10	-20552272.06	-20552272.01	0.2647	0.2531		
Mercury	-60979-06-15 11:16 J	-20550991.13	-20550991.03	-20550990.92	0.2685	0.0808		
Venus	-60974-03-24 06:57 J	-20549248.37	-20549248.21	-20549248.05	0.2620	0.0070		
Mercury	-60972-06-08 10:04 J	-20548441.15	-20548441.08	-20548441.01	0.2679	0.2084		
Mercury	-60966-06-18 05:16 J	-20546240.36	-20546240.28	-20546240.20	0.2687	0.1814		
Mercury	-60963-12-07 04:04 J	-20544972.47	-20544972.33	-20544972.19	0.2652	0.1152		
Mercury	-60959-06-11 04:04 J	-20543690.43	-20543690.33	-20543690.22	0.2681	0.1050		
Mercury	-60950-12-10 10:33 J	-20540221.21	-20540221.06	-20540220.91	0.2649	0.0858		
Mercury	-60946-06-13 22:18 J	-20538939.68	-20538939.57	-20538939.46	0.2683	0.0079		
Mercury	-60933-06-15 16:18 J	-20534188.93	-20534188.82	-20534188.72	0.2685	0.1006		
Mercury	-60926-06-09 14:52 J	-20531638.96	-20531638.88	-20531638.80	0.2679	0.1878		
Mercury	-60920-06-18 10:04 J	-20529438.15	-20529438.08	-20529438.01	0.2687	0.2012		
Mercury	-60917-12-07 10:33 J	-20528170.21	-20528170.06	-20528169.91	0.2651	0.0783		
Mercury	-60913-06-11 09:06 J	-20526888.23	-20526888.12	-20526888.02	0.2681	0.0844		
Mercury	-60904-12-10 17:01 J	-20523418.93	-20523418.79	-20523418.65	0.2649	0.1232		
Mercury	-60900-06-14 03:06 J	-20522137.48	-20522137.37	-20522137.26	0.2683	0.0185		
Mercury	-60887-06-16 21:06 J	-20517386.72	-20517386.62	-20517386.52	0.2685	0.1199		
Mercury	-60884-12-05 11:01 J	-20516119.11	-20516119.04	-20516118.98	0.2654	0.2391		
Mercury	-60880-06-09 19:40 J	-20514836.76	-20514836.68	-20514836.59	0.2679	0.1678		
Mercury	-60874-06-19 14:52 J	-20512635.94	-20512635.88	-20512635.81	0.2687	0.2206		
Mercury	-60871-12-08 17:01 J	-20511367.94	-20511367.79	-20511367.63	0.2651	0.0421		
Venus	-60869-09-21 14:09 J	-20510714.93	-20510714.91	-20510714.88	0.2713	0.2660		
Mercury	-60867-06-12 13:54 J	-20510086.03	-20510085.92	-20510085.81	0.2682	0.0641		
Venus	-60861-09-19 07:11 J	-20507795.34	-20507795.20	-20507795.07	0.2714	0.1357		

Mercury -60858-12-11 23:45 J -20506616.64 -20506616.51 -20506616.39 0.2648 0.1606

Mercury -60854-06-15 07:54 J -20505335.28 -20505335.17 -20505335.06 0.2684 0.0384

Mercury -60847-06-08 06:28 J -20502785.27 -20502785.23 -20502785.19 0.2677 0.2510

Mercury -60841-06-17 01:54 J -20500584.51 -20500584.42 -20500584.33 0.2686 0.1396

Mercury -60838-12-06 17:30 J -20499316.87 -20499316.77 -20499316.67 0.2653 0.2023

Mercury -60834-06-11 00:42 J -20498034.56 -20498034.47 -20498034.38 0.2680 0.1469

Mercury -60828-06-19 19:54 J -20495833.72 -20495833.67 -20495833.63 0.2688 0.2400

Mercury -60825-12-08 23:45 J -20494565.67 -20494565.51 -20494565.36 0.2651 0.0093

Mercury -60821-06-12 18:42 J -20493283.83 -20493283.72 -20493283.61 0.2682 0.0444

Mercury -60812-12-12 06:13 J -20489814.34 -20489814.24 -20489814.14 0.2648 0.1975

Mercury -60808-06-15 12:42 J -20488533.07 -20488532.97 -20488532.86 0.2684 0.0587

Mercury -60801-06-08 11:16 J -20485983.08 -20485983.03 -20485982.97 0.2678 0.2305

Mercury -60795-06-18 06:42 J -20483782.31 -20483782.22 -20483782.13 0.2686 0.1592

Mercury -60792-12-06 23:59 J -20482514.62 -20482514.50 -20482514.38 0.2653 0.1654

Mercury -60788-06-11 05:30 J -20481232.37 -20481232.27 -20481232.17 0.2680 0.1267

Mercury -60782-06-21 00:42 J -20479031.50 -20479031.47 -20479031.45 0.2688 0.2592

Mercury -60779-12-10 06:13 J -20477763.39 -20477763.24 -20477763.08 0.2650 0.0329

Mercury -60775-06-13 23:45 J -20476481.63 -20476481.51 -20476481.40 0.2682 0.0263

Mercury -60766-12-13 12:42 J -20473012.04 -20473011.97 -20473011.90 0.2648 0.2354

Mercury -60762-06-16 17:45 J -20471730.87 -20471730.76 -20471730.66 0.2684 0.0784

Mercury -60755-06-09 16:18 J -20469180.89 -20469180.82 -20469180.75 0.2678 0.2101

Mercury -60749-06-18 11:30 J -20466980.10 -20466980.02 -20466979.93 0.2686 0.1793

Mercury -60746-12-08 06:28 J -20465712.36 -20465712.23 -20465712.09 0.2652 0.1291

Mercury -60742-06-12 10:18 J -20464430.17 -20464430.07 -20464429.96 0.2680 0.1069

Mercury -60733-12-10 12:42 J -20460961.12 -20460960.97 -20460960.81 0.2650 0.0707

Venus -60731-03-24 06:57 J -20460492.37 -20460492.21 -20460492.05 0.2620 0.0061

Mercury -60729-06-14 04:33 J -20459679.42 -20459679.31 -20459679.20 0.2682 0.0064

Mercury -60716-06-16 22:33 J -20454928.66 -20454928.56 -20454928.46 0.2684 0.0979

Mercury -60709-06-09 21:06 J -20452378.70 -20452378.62 -20452378.54 0.2678 0.1895

Mercury -60703-06-19 16:33 J -20450177.89 -20450177.81 -20450177.74 0.2687 0.1983

Mercury -60700-12-08 12:57 J -20448910.10 -20448909.96 -20448909.81 0.2652 0.0929

Mercury -60696-06-12 15:21 J -20447627.97 -20447627.86 -20447627.76 0.2681 0.0868

Mercury -60687-12-11 19:25 J -20444158.83 -20444158.69 -20444158.55 0.2650 0.1071

Mercury -60683-06-15 09:21 J -20442877.22 -20442877.11 -20442877.00 0.2683 0.0161

Mercury -60670-06-18 03:21 J -20438126.46 -20438126.36 -20438126.26 0.2685 0.1175

Mercury -60667-12-06 13:25 J -20436858.98 -20436858.94 -20436858.89 0.2654 0.2516

Mercury -60663-06-11 01:54 J -20435576.50 -20435576.42 -20435576.33 0.2679 0.1697

Mercury -60657-06-19 21:21 J -20433375.67 -20433375.61 -20433375.55 0.2687 0.2179

Mercury -60654-12-09 19:25 J -20432107.84 -20432107.69 -20432107.54 0.2652 0.0567

Mercury -60650-06-13 20:09 J -20430825.77 -20430825.66 -20430825.55 0.2681 0.0662

Mercury -60641-12-12 01:54 J -20427356.55 -20427356.42 -20427356.29 0.2649 0.1438

Mercury -60637-06-15 14:09 J -20426075.02 -20426074.91 -20426074.80 0.2683 0.0364

Mercury -60630-06-09 12:42 J -20423525.00 -20423524.97 -20423524.94 0.2677 0.2524

Venus -60626-09-22 16:33 J -20421958.85 -20421958.81 -20421958.77 0.2713 0.2611

Mercury -60624-06-18 08:09 J -20421324.25 -20421324.16 -20421324.06 0.2685 0.1371

Mercury -60621-12-06 19:54 J -20420056.76 -20420056.67 -20420056.58 0.2654 0.2155

Venus -60618-09-20 09:21 J -20419039.24 -20419039.11 -20419038.97 0.2714 0.1402

Mercury -60617-06-11 06:57 J -20418774.30 -20418774.21 -20418774.12 0.2679 0.1491

Mercury -60611-06-21 02:09 J -20416573.46 -20416573.41 -20416573.36 0.2687 0.2370

Mercury -60608-12-10 02:09 J -20415305.57 -20415305.41 -20415305.26 0.2651 0.0204

Mercury -60604-06-14 00:57 J -20414023.57 -20414023.46 -20414023.35 0.2681 0.0467

Mercury -60595-12-13 08:23 J -20410554.26 -20410554.15 -20410554.03 0.2649 0.1810

Mercury -60591-06-16 19:11 J -20409272.81 -20409272.70 -20409272.60 0.2683 0.0566

Mercury -60584-06-09 17:30 J -20406722.82 -20406722.77 -20406722.71 0.2677 0.2324

Mercury -60578-06-19 12:57 J -20404522.04 -20404521.96 -20404521.87 0.2685 0.1569

Mercury -60575-12-08 02:23 J -20403254.51 -20403254.40 -20403254.29 0.2654 0.1800

Mercury -60571-06-12 11:45 J -20401972.11 -20401972.01 -20401971.91 0.2679 0.1286

Mercury -60565-06-21 06:57 J -20399771.24 -20399771.21 -20399771.18 0.2687 0.2563

Mercury -60562-12-11 08:37 J -20398503.30 -20398503.14 -20398502.99 0.2651 0.0181

Mercury -60558-06-15 05:59 J -20397221.36 -20397221.25 -20397221.14 0.2682 0.0278

Mercury -60549-12-13 15:06 J -20393751.96 -20393751.87 -20393751.79 0.2649 0.2182
 Mercury -60545-06-16 23:59 J -20392470.61 -20392470.50 -20392470.40 0.2684 0.0756
 Mercury -60538-06-10 22:33 J -20389920.63 -20389920.56 -20389920.50 0.2678 0.2117
 Mercury -60532-06-19 17:59 J -20387719.84 -20387719.75 -20387719.67 0.2686 0.1760
 Mercury -60529-12-08 08:52 J -20386452.26 -20386452.13 -20386452.00 0.2653 0.1437
 Mercury -60525-06-12 16:33 J -20385169.91 -20385169.81 -20385169.70 0.2680 0.1090
 Mercury -60516-12-11 15:06 J -20381701.02 -20381700.87 -20381700.72 0.2651 0.0534
 Mercury -60512-06-15 10:47 J -20380419.16 -20380419.05 -20380418.94 0.2682 0.0067
 Mercury -60503-12-14 21:35 J -20376949.64 -20376949.60 -20376949.56 0.2648 0.2550
 Mercury -60499-06-18 04:47 J -20375668.40 -20375668.30 -20375668.20 0.2684 0.0952
 Mercury -60492-06-11 03:21 J -20373118.44 -20373118.36 -20373118.28 0.2678 0.1918
 Venus -60488-03-24 06:28 J -20371736.39 -20371736.23 -20371736.07 0.2620 0.0016
 Mercury -60486-06-20 22:47 J -20370917.63 -20370917.55 -20370917.48 0.2686 0.1954
 Mercury -60483-12-09 15:21 J -20369650.00 -20369649.86 -20369649.72 0.2653 0.1075
 Mercury -60479-06-13 21:35 J -20368367.71 -20368367.60 -20368367.50 0.2680 0.0886
 Mercury -60470-12-12 21:35 J -20364898.75 -20364898.60 -20364898.45 0.2650 0.0902
 Mercury -60466-06-16 15:35 J -20363616.96 -20363616.85 -20363616.74 0.2682 0.0144
 Mercury -60453-06-18 09:35 J -20358866.20 -20358866.10 -20358866.00 0.2684 0.1149
 Mercury -60450-12-07 16:04 J -20357598.84 -20357598.83 -20357598.82 0.2655 0.2644
 Mercury -60446-06-12 08:09 J -20356316.24 -20356316.16 -20356316.07 0.2678 0.1713
 Mercury -60440-06-21 03:35 J -20354115.41 -20354115.35 -20354115.29 0.2686 0.2148
 Mercury -60437-12-09 22:04 J -20352847.73 -20352847.58 -20352847.44 0.2652 0.0710
 Mercury -60433-06-14 02:23 J -20351565.51 -20351565.40 -20351565.29 0.2680 0.0686
 Mercury -60424-12-13 04:18 J -20348096.46 -20348096.32 -20348096.19 0.2650 0.1276
 Mercury -60420-06-16 20:23 J -20346814.76 -20346814.65 -20346814.54 0.2682 0.0349
 Mercury -60413-06-09 18:57 J -20344264.74 -20344264.71 -20344264.68 0.2676 0.2549
 Mercury -60407-06-19 14:23 J -20342063.99 -20342063.90 -20342063.80 0.2685 0.1349
 Mercury -60404-12-07 22:33 J -20340796.64 -20340796.56 -20340796.49 0.2655 0.2292
 Mercury -60400-06-12 13:11 J -20339514.04 -20339513.95 -20339513.86 0.2678 0.1513
 Mercury -60394-06-22 08:23 J -20337313.20 -20337313.15 -20337313.10 0.2687 0.2342

Mercury -60391-12-11 04:18 J -20336045.47 -20336045.32 -20336045.16 0.2652 0.0355

Mercury -60387-06-15 07:11 J -20334763.31 -20334763.20 -20334763.09 0.2681 0.0490

Venus -60383-09-22 18:57 J -20333202.76 -20333202.71 -20333202.67 0.2713 0.2561

Mercury -60378-12-14 10:47 J -20331294.17 -20331294.05 -20331293.93 0.2650 0.1645

Venus -60375-09-20 11:59 J -20330283.13 -20330283.00 -20330282.87 0.2714 0.1422

Mercury -60374-06-18 01:25 J -20330012.55 -20330012.44 -20330012.33 0.2683 0.0537

Mercury -60367-06-10 23:45 J -20327462.56 -20327462.51 -20327462.46 0.2677 0.2342

Mercury -60361-06-19 19:25 J -20325261.78 -20325261.69 -20325261.60 0.2685 0.1539

Mercury -60358-12-09 04:47 J -20323994.40 -20323994.30 -20323994.19 0.2654 0.1936

Mercury -60354-06-13 17:59 J -20322711.85 -20322711.75 -20322711.65 0.2679 0.1310

Mercury -60348-06-22 13:11 J -20320510.98 -20320510.95 -20320510.91 0.2687 0.2533

Mercury -60345-12-11 11:01 J -20319243.20 -20319243.04 -20319242.89 0.2652 0.0072

Mercury -60341-06-15 12:13 J -20317961.10 -20317960.99 -20317960.88 0.2681 0.0301

Mercury -60332-12-14 17:16 J -20314491.88 -20314491.78 -20314491.68 0.2649 0.2008

Mercury -60328-06-18 06:13 J -20313210.35 -20313210.24 -20313210.13 0.2683 0.0730

Mercury -60321-06-11 04:33 J -20310660.37 -20310660.31 -20310660.24 0.2677 0.2143

Mercury -60315-06-21 00:13 J -20308459.57 -20308459.49 -20308459.41 0.2685 0.1731

Mercury -60312-12-09 11:16 J -20307192.15 -20307192.03 -20307191.90 0.2654 0.1580

Mercury -60308-06-13 22:47 J -20305909.65 -20305909.55 -20305909.45 0.2679 0.1113

Mercury -60299-12-12 17:30 J -20302440.93 -20302440.77 -20302440.62 0.2651 0.0382

Mercury -60295-06-16 17:01 J -20301158.90 -20301158.79 -20301158.68 0.2681 0.0090

Mercury -60286-12-15 23:45 J -20297689.57 -20297689.51 -20297689.44 0.2649 0.2377

Mercury -60282-06-19 11:01 J -20296408.14 -20296408.04 -20296407.94 0.2683 0.0923

Mercury -60275-06-12 09:35 J -20293858.18 -20293858.10 -20293858.03 0.2677 0.1935

Mercury -60269-06-21 05:01 J -20291657.36 -20291657.29 -20291657.21 0.2685 0.1924

Mercury -60266-12-10 17:45 J -20290389.89 -20290389.76 -20290389.62 0.2654 0.1220

Mercury -60262-06-15 03:49 J -20289107.45 -20289107.34 -20289107.24 0.2679 0.0912

Mercury -60253-12-12 23:59 J -20285638.65 -20285638.50 -20285638.35 0.2651 0.0740

Mercury -60249-06-16 21:49 J -20284356.70 -20284356.59 -20284356.48 0.2682 0.0114

Venus -60245-03-24 06:13 J -20282980.41 -20282980.24 -20282980.08 0.2619 0.0033

Mercury -60236-06-19 15:49 J -20279605.94 -20279605.84 -20279605.74 0.2684 0.1122

Mercury -60229-06-12 14:23 J -20277055.98 -20277055.90 -20277055.81 0.2678 0.1735

Mercury -60223-06-22 09:49 J -20274855.15 -20274855.09 -20274855.02 0.2686 0.2116

Mercury -60220-12-11 00:13 J -20273587.63 -20273587.49 -20273587.34 0.2653 0.0867

Mercury -60216-06-15 08:37 J -20272305.25 -20272305.14 -20272305.03 0.2680 0.0706

Mercury -60207-12-14 06:28 J -20268836.37 -20268836.23 -20268836.09 0.2651 0.1104

Mercury -60203-06-18 02:37 J -20267554.50 -20267554.39 -20267554.28 0.2682 0.0327

Mercury -60196-06-11 00:57 J -20265004.48 -20265004.46 -20265004.43 0.2676 0.2569

Mercury -60190-06-20 20:52 J -20262803.73 -20262803.63 -20262803.54 0.2684 0.1316

Mercury -60187-12-09 00:57 J -20261536.52 -20261536.46 -20261536.40 0.2655 0.2426

Mercury -60183-06-13 19:25 J -20260253.79 -20260253.69 -20260253.60 0.2678 0.1534

Mercury -60177-06-22 14:37 J -20258052.94 -20258052.89 -20258052.83 0.2686 0.2308

Mercury -60174-12-12 06:42 J -20256785.37 -20256785.22 -20256785.06 0.2653 0.0505

Mercury -60170-06-16 13:25 J -20255503.05 -20255502.94 -20255502.83 0.2680 0.0515

Mercury -60161-12-14 12:57 J -20252034.09 -20252033.96 -20252033.83 0.2650 0.1468

Mercury -60157-06-18 07:40 J -20250752.29 -20250752.18 -20250752.07 0.2682 0.0510

Mercury -60150-06-12 05:59 J -20248202.30 -20248202.25 -20248202.20 0.2676 0.2364

Mercury -60144-06-21 01:40 J -20246001.52 -20246001.43 -20246001.34 0.2684 0.1509

Mercury -60141-12-09 07:25 J -20244734.29 -20244734.19 -20244734.10 0.2655 0.2068

Venus -60140-09-22 21:21 J -20244446.66 -20244446.61 -20244446.56 0.2714 0.2520

Mercury -60137-06-14 00:13 J -20243451.59 -20243451.49 -20243451.39 0.2678 0.1334

Venus -60132-09-20 14:23 J -20241527.03 -20241526.90 -20241526.77 0.2714 0.1454

Mercury -60131-06-23 19:40 J -20241250.72 -20241250.68 -20241250.65 0.2686 0.2500

Mercury -60128-12-12 13:11 J -20239983.10 -20239982.95 -20239982.79 0.2653 0.0163

Mercury -60124-06-16 18:28 J -20238700.84 -20238700.73 -20238700.62 0.2680 0.0319

Mercury -60115-12-15 19:40 J -20235231.79 -20235231.68 -20235231.57 0.2650 0.1838

Mercury -60111-06-19 12:28 J -20233950.09 -20233949.98 -20233949.87 0.2682 0.0701

Mercury -60104-06-12 10:47 J -20231400.11 -20231400.05 -20231399.98 0.2676 0.2161

Mercury -60098-06-22 06:28 J -20229199.31 -20229199.23 -20229199.14 0.2685 0.1701

Mercury -60095-12-10 13:54 J -20227932.04 -20227931.92 -20227931.81 0.2655 0.1718

Mercury	-60091-06-15 05:01 J	-20226649.39	-20226649.29	-20226649.19	0.2678	0.1132
Mercury	-60082-12-13 19:54 J	-20223180.83	-20223180.67	-20223180.52	0.2652	0.0227
Mercury	-60078-06-17 23:16 J	-20221898.64	-20221898.53	-20221898.42	0.2681	0.0118
Mercury	-60069-12-16 02:09 J	-20218429.49	-20218429.41	-20218429.33	0.2650	0.2202
Mercury	-60065-06-19 17:16 J	-20217147.88	-20217147.78	-20217147.67	0.2683	0.0897
Mercury	-60058-06-13 15:49 J	-20214597.92	-20214597.84	-20214597.77	0.2677	0.1962
Mercury	-60052-06-22 11:16 J	-20212397.10	-20212397.03	-20212396.95	0.2685	0.1895
Mercury	-60049-12-10 20:23 J	-20211129.79	-20211129.65	-20211129.52	0.2654	0.1368
Mercury	-60045-06-15 10:04 J	-20209847.19	-20209847.08	-20209846.98	0.2679	0.0935
Mercury	-60036-12-14 02:23 J	-20206378.55	-20206378.40	-20206378.25	0.2652	0.0581
Mercury	-60032-06-18 04:04 J	-20205096.44	-20205096.33	-20205096.22	0.2681	0.0095
Mercury	-60023-12-17 08:37 J	-20201627.17	-20201627.14	-20201627.10	0.2649	0.2571
Mercury	-60019-06-20 22:04 J	-20200345.68	-20200345.58	-20200345.47	0.2683	0.1094
Mercury	-60012-06-13 20:37 J	-20197795.72	-20197795.64	-20197795.56	0.2677	0.1757
Mercury	-60006-06-23 16:04 J	-20195594.89	-20195594.83	-20195594.76	0.2685	0.2086
Mercury	-60003-12-12 02:37 J	-20194327.53	-20194327.39	-20194327.24	0.2654	0.1013
Venus	-60002-03-25 05:30 J	-20194224.44	-20194224.27	-20194224.11	0.2619	0.0106

60TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 60th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-59999-06-16 14:52 J	-20193044.99	-20193044.88	-20193044.77	0.2679	0.0735		
Mercury	-59990-12-15 08:52 J	-20189576.28	-20189576.13	-20189575.99	0.2651	0.0940		

Mercury -59986-06-19 08:52 J -20188294.24 -20188294.13 -20188294.01 0.2681 0.0300

Mercury -59979-06-12 07:11 J -20185744.22 -20185744.20 -20185744.17 0.2675 0.2586

Mercury -59973-06-21 03:06 J -20183543.47 -20183543.37 -20183543.28 0.2683 0.1286

Mercury -59970-12-10 03:21 J -20182276.39 -20182276.36 -20182276.32 0.2656 0.2560

Mercury -59966-06-15 01:25 J -20180993.53 -20180993.44 -20180993.35 0.2677 0.1560

Mercury -59960-06-23 21:06 J -20178792.68 -20178792.62 -20178792.57 0.2685 0.2276

Mercury -59957-12-12 09:06 J -20177525.27 -20177525.12 -20177524.97 0.2654 0.0661

Mercury -59953-06-16 19:40 J -20176242.79 -20176242.68 -20176242.57 0.2680 0.0537

Mercury -59944-12-15 15:21 J -20172774.00 -20172773.86 -20172773.73 0.2651 0.1299

Mercury -59940-06-19 13:54 J -20171492.03 -20171491.92 -20171491.81 0.2682 0.0479

Mercury -59933-06-12 12:13 J -20168942.04 -20168941.99 -20168941.94 0.2675 0.2384

Mercury -59927-06-22 07:54 J -20166741.26 -20166741.17 -20166741.08 0.2684 0.1474

Mercury -59924-12-10 09:49 J -20165474.17 -20165474.09 -20165474.00 0.2656 0.2212

Mercury -59920-06-15 06:28 J -20164191.33 -20164191.23 -20164191.14 0.2678 0.1354

Mercury -59914-06-25 01:54 J -20161990.46 -20161990.42 -20161990.38 0.2686 0.2466

Mercury -59911-12-13 15:49 J -20160723.00 -20160722.84 -20160722.69 0.2653 0.0307

Mercury -59907-06-18 00:42 J -20159440.59 -20159440.47 -20159440.36 0.2680 0.0354

Mercury -59898-12-16 21:49 J -20155971.71 -20155971.59 -20155971.47 0.2651 0.1661

Venus -59897-09-22 23:45 J -20155690.57 -20155690.51 -20155690.45 0.2714 0.2482

Mercury -59894-06-20 18:42 J -20154689.83 -20154689.72 -20154689.61 0.2682 0.0670

Venus -59889-09-20 17:01 J -20152770.92 -20152770.79 -20152770.66 0.2715 0.1480

Mercury -59887-06-13 17:01 J -20152139.85 -20152139.79 -20152139.73 0.2676 0.2183

Mercury -59881-06-22 12:42 J -20149939.05 -20149938.97 -20149938.88 0.2684 0.1670

Mercury -59878-12-11 16:18 J -20148671.92 -20148671.82 -20148671.71 0.2655 0.1856

Mercury -59874-06-16 11:16 J -20147389.13 -20147389.03 -20147388.93 0.2678 0.1156

Mercury -59868-06-25 06:42 J -20145188.23 -20145188.22 -20145188.21 0.2686 0.2652

Mercury -59865-12-13 22:18 J -20143920.73 -20143920.57 -20143920.42 0.2653 0.0098

Mercury -59861-06-18 05:30 J -20142638.38 -20142638.27 -20142638.16 0.2680 0.0138

Mercury -59852-12-17 04:18 J -20139169.41 -20139169.32 -20139169.22 0.2650 0.2026

Mercury -59848-06-20 23:30 J -20137887.62 -20137887.52 -20137887.41 0.2682 0.0871

Mercury -59841-06-13 21:49 J -20135337.66 -20135337.59 -20135337.51 0.2676 0.1983

Mercury -59835-06-23 17:30 J -20133136.84 -20133136.77 -20133136.69 0.2684 0.1861

Mercury -59832-12-11 22:47 J -20131869.67 -20131869.55 -20131869.42 0.2655 0.1506

Mercury -59828-06-16 16:04 J -20130586.93 -20130586.83 -20130586.72 0.2678 0.0963

Mercury -59819-12-15 04:47 J -20127118.45 -20127118.30 -20127118.15 0.2653 0.0423

Mercury -59815-06-19 10:18 J -20125836.18 -20125836.07 -20125835.96 0.2680 0.0080

Mercury -59806-12-18 11:01 J -20122367.11 -20122367.04 -20122366.98 0.2650 0.2386

Mercury -59802-06-22 04:33 J -20121085.41 -20121085.31 -20121085.21 0.2683 0.1065

Mercury -59795-06-15 02:52 J -20118535.46 -20118535.38 -20118535.30 0.2676 0.1782

Mercury -59789-06-23 22:33 J -20116334.63 -20116334.56 -20116334.49 0.2684 0.2055

Mercury -59786-12-13 05:16 J -20115067.42 -20115067.28 -20115067.14 0.2655 0.1154

Mercury -59782-06-17 21:06 J -20113784.73 -20113784.62 -20113784.51 0.2679 0.0762

Mercury -59773-12-15 11:16 J -20110316.18 -20110316.03 -20110315.88 0.2652 0.0776

Mercury -59769-06-19 15:21 J -20109033.98 -20109033.86 -20109033.75 0.2681 0.0276

Mercury -59762-06-13 13:25 J -20106483.96 -20106483.94 -20106483.92 0.2675 0.2609

Venus -59759-03-25 05:01 J -20105468.46 -20105468.29 -20105468.13 0.2619 0.0127

Mercury -59756-06-22 09:21 J -20104283.21 -20104283.11 -20104283.01 0.2683 0.1252

Mercury -59749-06-15 07:40 J -20101733.27 -20101733.18 -20101733.09 0.2677 0.1581

Mercury -59743-06-25 03:21 J -20099532.42 -20099532.36 -20099532.30 0.2685 0.2243

Mercury -59740-12-13 11:45 J -20098265.16 -20098265.01 -20098264.86 0.2654 0.0803

Mercury -59736-06-18 01:54 J -20096982.53 -20096982.42 -20096982.31 0.2679 0.0562

Mercury -59727-12-16 17:45 J -20093513.90 -20093513.76 -20093513.62 0.2652 0.1136

Mercury -59723-06-20 20:09 J -20092231.77 -20092231.66 -20092231.55 0.2681 0.0448

Mercury -59716-06-13 18:13 J -20089681.78 -20089681.74 -20089681.69 0.2675 0.2409

Mercury -59710-06-23 14:09 J -20087481.00 -20087480.91 -20087480.82 0.2683 0.1446

Mercury -59707-12-11 12:28 J -20086214.05 -20086213.98 -20086213.91 0.2656 0.2343

Mercury -59703-06-16 12:42 J -20084931.07 -20084930.97 -20084930.88 0.2677 0.1385

Mercury -59697-06-25 08:09 J -20082730.20 -20082730.16 -20082730.11 0.2685 0.2431

Mercury -59694-12-14 18:13 J -20081462.89 -20081462.74 -20081462.59 0.2654 0.0453

Mercury -59690-06-19 06:57 J -20080180.32 -20080180.21 -20080180.10 0.2679 0.0377

Mercury -59681-12-17 00:13 J -20076711.62 -20076711.49 -20076711.36 0.2651 0.1492

Mercury -59677-06-21 00:57 J -20075429.57 -20075429.46 -20075429.35 0.2681 0.0643

Mercury -59670-06-14 23:16 J -20072879.59 -20072879.53 -20072879.47 0.2675 0.2206

Mercury -59664-06-23 18:57 J -20070678.79 -20070678.71 -20070678.62 0.2683 0.1637

Mercury -59661-12-11 18:57 J -20069411.81 -20069411.71 -20069411.61 0.2656 0.2002

Mercury -59657-06-16 17:30 J -20068128.87 -20068128.77 -20068128.67 0.2677 0.1182

Venus -59654-09-24 02:23 J -20066934.46 -20066934.40 -20066934.33 0.2714 0.2462

Mercury -59651-06-26 12:57 J -20065927.98 -20065927.96 -20065927.94 0.2685 0.2621

Mercury -59648-12-15 00:42 J -20064660.63 -20064660.47 -20064660.32 0.2654 0.0106

Venus -59646-09-21 19:54 J -20064014.80 -20064014.67 -20064014.54 0.2715 0.1469

Mercury -59644-06-19 11:45 J -20063378.12 -20063378.01 -20063377.90 0.2680 0.0173

Mercury -59635-12-18 06:42 J -20059909.33 -20059909.22 -20059909.11 0.2651 0.1851

Mercury -59631-06-22 05:45 J -20058627.36 -20058627.26 -20058627.15 0.2682 0.0841

Mercury -59624-06-15 04:04 J -20056077.40 -20056077.33 -20056077.26 0.2675 0.2005

Mercury -59618-06-24 23:59 J -20053876.58 -20053876.50 -20053876.42 0.2684 0.1832

Mercury -59615-12-13 01:25 J -20052609.56 -20052609.44 -20052609.33 0.2656 0.1652

Mercury -59611-06-17 22:18 J -20051326.67 -20051326.57 -20051326.46 0.2678 0.0988

Mercury -59602-12-16 06:57 J -20047858.36 -20047858.21 -20047858.05 0.2653 0.0264

Mercury -59598-06-20 16:33 J -20046575.92 -20046575.81 -20046575.70 0.2680 0.0054

Mercury -59589-12-18 13:11 J -20043107.03 -20043106.95 -20043106.86 0.2651 0.2208

Mercury -59585-06-22 10:47 J -20041825.16 -20041825.05 -20041824.95 0.2682 0.1032

Mercury -59578-06-16 09:06 J -20039275.21 -20039275.12 -20039275.04 0.2676 0.1807

Mercury -59572-06-25 04:47 J -20037074.37 -20037074.30 -20037074.23 0.2684 0.2017

Mercury -59569-12-13 07:54 J -20035807.31 -20035807.17 -20035807.04 0.2655 0.1303

Mercury -59565-06-18 03:21 J -20034524.47 -20034524.36 -20034524.26 0.2678 0.0786

Mercury -59556-12-16 13:40 J -20031056.08 -20031055.93 -20031055.78 0.2653 0.0613

Mercury -59552-06-20 21:21 J -20029773.72 -20029773.61 -20029773.49 0.2680 0.0250

Mercury -59545-06-13 19:25 J -20027223.70 -20027223.69 -20027223.67 0.2674 0.2637

Mercury -59543-12-19 19:40 J -20026304.71 -20026304.68 -20026304.64 0.2650 0.2565

Mercury -59539-06-23 15:35 J -20025022.95 -20025022.85 -20025022.75 0.2682 0.1222

Mercury -59532-06-16 13:54 J -20022473.01 -20022472.92 -20022472.83 0.2676 0.1606

Mercury -59526-06-26 09:35 J -20020272.16 -20020272.10 -20020272.04 0.2684 0.2210

Mercury -59523-12-14 14:09 J -20019005.05 -20019004.91 -20019004.76 0.2655 0.0951

Mercury -59519-06-19 08:09 J -20017722.27 -20017722.16 -20017722.05 0.2678 0.0589

Venus -59516-03-25 04:04 J -20016712.49 -20016712.33 -20016712.17 0.2618 0.0198

Mercury -59510-12-17 20:09 J -20014253.80 -20014253.66 -20014253.52 0.2653 0.0967

Mercury -59506-06-22 02:23 J -20012971.51 -20012971.40 -20012971.29 0.2680 0.0421

Mercury -59499-06-15 00:28 J -20010421.52 -20010421.48 -20010421.44 0.2674 0.2432

Mercury -59493-06-23 20:23 J -20008220.74 -20008220.65 -20008220.55 0.2682 0.1416

Mercury -59490-12-12 15:06 J -20006953.92 -20006953.87 -20006953.82 0.2657 0.2477

Mercury -59486-06-17 18:42 J -20005670.81 -20005670.72 -20005670.62 0.2676 0.1410

Mercury -59480-06-26 14:23 J -20003469.94 -20003469.90 -20003469.85 0.2685 0.2397

Mercury -59477-12-14 20:37 J -20002202.79 -20002202.64 -20002202.49 0.2655 0.0603

Mercury -59473-06-19 12:57 J -20000920.07 -20000919.96 -20000919.85 0.2679 0.0403

Mercury -59464-12-18 02:37 J -19997451.52 -19997451.39 -19997451.25 0.2652 0.1328

Mercury -59460-06-22 07:11 J -19996169.31 -19996169.20 -19996169.09 0.2681 0.0614

Mercury -59453-06-15 05:16 J -19993619.34 -19993619.28 -19993619.22 0.2675 0.2235

Mercury -59447-06-25 01:25 J -19991418.53 -19991418.44 -19991418.36 0.2683 0.1610

Mercury -59444-12-12 21:35 J -19990151.69 -19990151.60 -19990151.51 0.2657 0.2133

Mercury -59440-06-17 23:45 J -19988868.61 -19988868.51 -19988868.41 0.2677 0.1210

Mercury -59434-06-27 19:25 J -19986667.72 -19986667.69 -19986667.67 0.2685 0.2588

Mercury -59431-12-16 03:06 J -19985400.52 -19985400.37 -19985400.22 0.2654 0.0253

Mercury -59427-06-20 17:59 J -19984117.86 -19984117.75 -19984117.64 0.2679 0.0202

Mercury -59418-12-19 09:06 J -19980649.24 -19980649.12 -19980649.00 0.2652 0.1677

Mercury -59414-06-23 11:59 J -19979367.10 -19979367.00 -19979366.89 0.2681 0.0812

Venus -59411-09-24 05:16 J -19978178.35 -19978178.28 -19978178.22 0.2714 0.2443

Mercury -59407-06-16 10:18 J -19976817.14 -19976817.07 -19976817.00 0.2675 0.2030

Venus -59403-09-21 22:33 J -19975258.69 -19975258.56 -19975258.43 0.2715 0.1497

Mercury -59401-06-25 06:13 J -19974616.32 -19974616.24 -19974616.16 0.2683 0.1794

Mercury -59398-12-14 03:49 J -19973349.45 -19973349.34 -19973349.22 0.2656 0.1790

Mercury -59394-06-19 04:33 J -19972066.41 -19972066.31 -19972066.20 0.2677 0.1012

Mercury -59385-12-16 09:35 J -19968598.25 -19968598.10 -19968597.94 0.2654 0.0102

Mercury -59381-06-20 22:47 J -19967315.66 -19967315.55 -19967315.44 0.2679 0.0023

Mercury -59372-12-19 15:35 J -19963846.95 -19963846.85 -19963846.75 0.2651 0.2035

Mercury -59368-06-23 17:01 J -19962564.90 -19962564.79 -19962564.69 0.2681 0.0998

Mercury -59361-06-16 15:06 J -19960014.95 -19960014.87 -19960014.79 0.2675 0.1833

Mercury -59355-06-26 11:01 J -19957814.11 -19957814.04 -19957813.97 0.2683 0.1986

Mercury -59352-12-14 10:18 J -19956547.20 -19956547.07 -19956546.94 0.2656 0.1445

Mercury -59348-06-19 09:35 J -19955264.21 -19955264.10 -19955264.00 0.2678 0.0816

Mercury -59339-12-17 16:04 J -19951795.98 -19951795.83 -19951795.68 0.2654 0.0450

Mercury -59335-06-22 03:49 J -19950513.46 -19950513.34 -19950513.23 0.2680 0.0224

Mercury -59328-06-15 01:40 J -19947963.44 -19947963.43 -19947963.42 0.2673 0.2657

Mercury -59326-12-20 22:04 J -19947044.64 -19947044.58 -19947044.51 0.2651 0.2392

Mercury -59322-06-24 21:49 J -19945762.69 -19945762.59 -19945762.49 0.2682 0.1190

Mercury -59315-06-17 20:09 J -19943212.75 -19943212.66 -19943212.57 0.2676 0.1631

Mercury -59309-06-26 15:49 J -19941011.90 -19941011.84 -19941011.77 0.2684 0.2171

Mercury -59306-12-15 16:47 J -19939744.94 -19939744.80 -19939744.66 0.2656 0.1104

Mercury -59302-06-20 14:23 J -19938462.01 -19938461.90 -19938461.79 0.2678 0.0617

Mercury -59293-12-17 22:33 J -19934993.71 -19934993.56 -19934993.41 0.2653 0.0801

Mercury -59289-06-22 08:37 J -19933711.25 -19933711.14 -19933711.03 0.2680 0.0390

Mercury -59282-06-16 06:42 J -19931161.26 -19931161.22 -19931161.18 0.2674 0.2457

Mercury -59276-06-25 02:37 J -19928960.48 -19928960.39 -19928960.29 0.2682 0.1384

Venus -59273-03-25 03:21 J -19927956.52 -19927956.36 -19927956.19 0.2618 0.0251

Mercury -59273-12-12 17:45 J -19927693.78 -19927693.76 -19927693.73 0.2658 0.2607

Mercury -59269-06-18 00:57 J -19926410.55 -19926410.46 -19926410.36 0.2676 0.1434

Mercury -59263-06-27 20:37 J -19924209.69 -19924209.64 -19924209.59 0.2684 0.2363

Mercury -59260-12-15 23:16 J -19922942.68 -19922942.53 -19922942.39 0.2655 0.0756

Mercury -59256-06-20 19:11 J -19921659.81 -19921659.70 -19921659.59 0.2678 0.0430

Mercury -59247-12-19 05:01 J -19918191.43 -19918191.29 -19918191.15 0.2653 0.1149

Mercury -59243-06-23 13:25 J -19916909.05 -19916908.94 -19916908.83 0.2680 0.0584

Mercury -59236-06-16 11:30 J -19914359.08 -19914359.02 -19914358.96 0.2674 0.2255

Mercury -59230-06-26 07:40 J -19912158.27 -19912158.18 -19912158.10 0.2682 0.1573

Mercury -59227-12-14 00:13 J -19910891.57 -19910891.49 -19910891.41 0.2657 0.2263

Mercury -59223-06-19 05:59 J -19909608.35 -19909608.25 -19909608.15 0.2676 0.1237

Mercury -59217-06-28 01:40 J -19907407.46 -19907407.43 -19907407.40 0.2684 0.2548

Mercury -59214-12-17 05:45 J -19906140.41 -19906140.26 -19906140.11 0.2655 0.0403

Mercury -59210-06-22 00:13 J -19904857.60 -19904857.49 -19904857.38 0.2678 0.0229

Mercury -59201-12-19 11:30 J -19901389.14 -19901389.02 -19901388.89 0.2652 0.1509

Mercury -59197-06-23 18:28 J -19900106.84 -19900106.73 -19900106.63 0.2680 0.0781

Mercury -59190-06-17 16:33 J -19897556.88 -19897556.81 -19897556.74 0.2674 0.2060

Mercury -59184-06-26 12:28 J -19895356.06 -19895355.98 -19895355.90 0.2683 0.1762

Mercury -59181-12-14 06:28 J -19894089.33 -19894089.23 -19894089.12 0.2657 0.1928

Mercury -59177-06-19 10:47 J -19892806.15 -19892806.05 -19892805.95 0.2677 0.1036

Venus -59168-09-24 08:09 J -19889422.22 -19889422.16 -19889422.10 0.2715 0.2457

Mercury -59168-12-17 12:13 J -19889338.15 -19889337.99 -19889337.84 0.2655 0.0078

Mercury -59164-06-22 05:01 J -19888055.40 -19888055.29 -19888055.18 0.2679 0.0053

Venus -59160-09-22 01:40 J -19886502.56 -19886502.43 -19886502.30 0.2715 0.1447

Mercury -59155-12-20 17:59 J -19884586.85 -19884586.75 -19884586.64 0.2652 0.1866

Mercury -59151-06-24 23:16 J -19883304.64 -19883304.53 -19883304.43 0.2681 0.0967

Mercury -59144-06-17 21:21 J -19880754.69 -19880754.61 -19880754.53 0.2675 0.1856

Mercury -59138-06-27 17:16 J -19878553.85 -19878553.78 -19878553.70 0.2683 0.1950

Mercury -59135-12-15 12:57 J -19877287.08 -19877286.96 -19877286.84 0.2657 0.1587

Mercury -59131-06-20 15:35 J -19876003.95 -19876003.85 -19876003.74 0.2677 0.0848

Mercury -59122-12-18 18:42 J -19872535.88 -19872535.72 -19872535.57 0.2654 0.0300

Mercury -59118-06-23 09:49 J -19871253.20 -19871253.09 -19871252.97 0.2679 0.0196

Mercury -59109-12-21 00:28 J -19867784.56 -19867784.48 -19867784.39 0.2652 0.2219

Mercury -59105-06-25 04:04 J -19866502.43 -19866502.33 -19866502.23 0.2681 0.1158

Mercury -59098-06-19 02:23 J -19863952.49 -19863952.40 -19863952.32 0.2675 0.1664

Mercury -59092-06-27 22:04 J -19861751.64 -19861751.58 -19861751.51 0.2683 0.2140

Mercury -59089-12-15 19:25 J -19860484.83 -19860484.69 -19860484.56 0.2656 0.1246

Mercury -59085-06-20 20:37 J -19859201.75 -19859201.64 -19859201.53 0.2677 0.0646

Mercury -59076-12-19 00:57 J -19855733.61 -19855733.46 -19855733.31 0.2654 0.0639

Mercury -59072-06-23 14:52 J -19854450.99 -19854450.88 -19854450.77 0.2679 0.0359

Mercury -59065-06-16 12:42 J -19851901.01 -19851900.97 -19851900.93 0.2673 0.2481

Mercury -59063-12-22 06:57 J -19850982.24 -19850982.21 -19850982.17 0.2651 0.2567

Mercury -59059-06-26 08:52 J -19849700.22 -19849700.13 -19849700.03 0.2681 0.1348

Mercury -59052-06-19 07:11 J -19847150.29 -19847150.20 -19847150.11 0.2675 0.1459

Mercury -59046-06-29 03:06 J -19844949.43 -19844949.37 -19844949.32 0.2683 0.2325

Mercury -59043-12-17 01:54 J -19843682.57 -19843682.42 -19843682.28 0.2656 0.0903

Mercury -59039-06-22 01:25 J -19842399.55 -19842399.44 -19842399.33 0.2677 0.0456

Venus -59030-03-26 02:23 J -19839200.56 -19839200.40 -19839200.23 0.2618 0.0321

Mercury -59030-12-20 07:25 J -19838931.33 -19838931.19 -19838931.04 0.2653 0.0990

Mercury -59026-06-24 19:40 J -19837648.79 -19837648.68 -19837648.57 0.2680 0.0548

Mercury -59019-06-17 17:45 J -19835098.82 -19835098.76 -19835098.71 0.2673 0.2282

Mercury -59013-06-26 13:54 J -19832898.01 -19832897.92 -19832897.83 0.2682 0.1537

Mercury -59010-12-15 02:52 J -19831631.44 -19831631.38 -19831631.32 0.2658 0.2404

Mercury -59006-06-20 11:59 J -19830348.09 -19830348.00 -19830347.90 0.2676 0.1267

59TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 59th millennium BCE.

PLANET	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
TRANSIT								
TIME								
Mercury	-59000-06-29 07:54 J	-19828147.21	-19828147.17	-19828147.14	0.2684	0.2512		
Mercury	-58997-12-17 08:09 J	-19826880.31	-19826880.16	-19826880.01	0.2656	0.0560		

Mercury -58993-06-22 06:28 J -19825597.34 -19825597.23 -19825597.12 0.2678 0.0261

Mercury -58984-12-20 13:54 J -19822129.05 -19822128.92 -19822128.78 0.2653 0.1339

Mercury -58980-06-25 00:28 J -19820846.58 -19820846.48 -19820846.37 0.2680 0.0748

Mercury -58973-06-17 22:33 J -19818296.63 -19818296.56 -19818296.49 0.2674 0.2083

Mercury -58967-06-27 18:42 J -19816095.80 -19816095.72 -19816095.64 0.2682 0.1725

Mercury -58964-12-15 09:06 J -19814829.21 -19814829.12 -19814829.02 0.2658 0.2067

Mercury -58960-06-20 17:01 J -19813545.89 -19813545.79 -19813545.69 0.2676 0.1066

Mercury -58951-12-18 14:37 J -19810078.04 -19810077.89 -19810077.74 0.2655 0.0216

Mercury -58947-06-23 11:16 J -19808795.14 -19808795.03 -19808794.92 0.2678 0.0063

Mercury -58938-12-21 20:23 J -19805326.77 -19805326.65 -19805326.53 0.2653 0.1685

Mercury -58934-06-26 05:30 J -19804044.38 -19804044.27 -19804044.17 0.2680 0.0935

Mercury -58927-06-19 03:35 J -19801494.43 -19801494.35 -19801494.27 0.2674 0.1886

Venus -58925-09-24 11:01 J -19800666.10 -19800666.04 -19800665.98 0.2714 0.2445

Mercury -58921-06-27 23:30 J -19799293.59 -19799293.52 -19799293.44 0.2682 0.1915

Mercury -58918-12-16 15:35 J -19798026.96 -19798026.85 -19798026.73 0.2657 0.1724

Venus -58917-09-22 04:33 J -19797746.44 -19797746.31 -19797746.18 0.2715 0.1456

Mercury -58914-06-21 21:49 J -19796743.69 -19796743.59 -19796743.48 0.2676 0.0875

Mercury -58905-12-18 21:06 J -19793275.77 -19793275.62 -19793275.47 0.2655 0.0131

Mercury -58901-06-23 16:04 J -19791992.94 -19791992.83 -19791992.71 0.2678 0.0169

Mercury -58892-12-22 02:52 J -19788524.47 -19788524.38 -19788524.28 0.2653 0.2034

Mercury -58888-06-26 10:18 J -19787242.17 -19787242.07 -19787241.97 0.2680 0.1123

Mercury -58881-06-19 08:23 J -19784692.23 -19784692.15 -19784692.06 0.2674 0.1686

Mercury -58875-06-29 04:33 J -19782491.38 -19782491.31 -19782491.25 0.2683 0.2104

Mercury -58872-12-16 22:04 J -19781224.71 -19781224.58 -19781224.45 0.2657 0.1382

Mercury -58868-06-22 02:52 J -19779941.49 -19779941.38 -19779941.27 0.2677 0.0679

Mercury -58859-12-20 03:35 J -19776473.50 -19776473.35 -19776473.20 0.2655 0.0481

Mercury -58855-06-24 21:06 J -19775190.73 -19775190.62 -19775190.51 0.2679 0.0329

Mercury -58848-06-17 18:57 J -19772640.75 -19772640.71 -19772640.68 0.2673 0.2509

Mercury -58846-12-23 09:35 J -19771722.17 -19771722.10 -19771722.04 0.2652 0.2389

Mercury -58842-06-27 15:06 J -19770439.96 -19770439.87 -19770439.77 0.2681 0.1318

Mercury -58835-06-20 13:25 J -19767890.04 -19767889.94 -19767889.85 0.2675 0.1492

Mercury -58829-06-29 09:21 J -19765689.17 -19765689.11 -19765689.06 0.2683 0.2289

Mercury -58826-12-18 04:18 J -19764422.46 -19764422.32 -19764422.18 0.2657 0.1053

Mercury -58822-06-23 07:40 J -19763139.29 -19763139.18 -19763139.07 0.2677 0.0481

Mercury -58813-12-20 10:04 J -19759671.23 -19759671.08 -19759670.94 0.2654 0.0826

Mercury -58809-06-25 01:54 J -19758388.53 -19758388.42 -19758388.31 0.2679 0.0516

Mercury -58802-06-18 23:45 J -19755838.56 -19755838.51 -19755838.45 0.2673 0.2313

Mercury -58796-06-27 20:09 J -19753637.75 -19753637.66 -19753637.57 0.2681 0.1502

Mercury -58793-12-15 05:30 J -19752371.31 -19752371.27 -19752371.23 0.2659 0.2537

Mercury -58789-06-20 18:13 J -19751087.84 -19751087.74 -19751087.64 0.2675 0.1293

Venus -58787-03-26 01:25 J -19750444.60 -19750444.44 -19750444.28 0.2618 0.0404

Mercury -58783-06-30 14:09 J -19748886.95 -19748886.91 -19748886.87 0.2683 0.2473

Mercury -58780-12-18 10:47 J -19747620.20 -19747620.05 -19747619.90 0.2656 0.0709

Mercury -58776-06-23 12:28 J -19746337.09 -19746336.98 -19746336.86 0.2677 0.0307

Mercury -58767-12-21 16:33 J -19742868.95 -19742868.81 -19742868.67 0.2654 0.1167

Mercury -58763-06-26 06:42 J -19741586.32 -19741586.22 -19741586.11 0.2679 0.0716

Mercury -58756-06-19 04:47 J -19739036.37 -19739036.30 -19739036.23 0.2673 0.2111

Mercury -58750-06-29 00:57 J -19736835.54 -19736835.46 -19736835.37 0.2681 0.1691

Mercury -58747-12-16 11:59 J -19735569.09 -19735569.00 -19735568.92 0.2658 0.2201

Mercury -58743-06-21 23:16 J -19734285.64 -19734285.53 -19734285.43 0.2676 0.1103

Mercury -58737-06-30 18:57 J -19732084.72 -19732084.71 -19732084.70 0.2683 0.2659

Mercury -58734-12-19 17:16 J -19730817.93 -19730817.78 -19730817.63 0.2656 0.0373

Mercury -58730-06-24 17:30 J -19729534.88 -19729534.77 -19729534.66 0.2678 0.0098

Mercury -58721-12-21 23:01 J -19726066.67 -19726066.54 -19726066.42 0.2653 0.1514

Mercury -58717-06-26 11:45 J -19724784.12 -19724784.01 -19724783.91 0.2680 0.0898

Mercury -58710-06-20 09:49 J -19722234.17 -19722234.09 -19722234.02 0.2674 0.1913

Mercury -58704-06-29 05:45 J -19720033.33 -19720033.26 -19720033.18 0.2682 0.1878

Mercury -58701-12-16 18:13 J -19718766.84 -19718766.74 -19718766.63 0.2658 0.1868

Mercury -58697-06-22 04:04 J -19717483.44 -19717483.33 -19717483.22 0.2676 0.0900

Mercury -58688-12-19 23:45 J -19714015.67 -19714015.51 -19714015.36 0.2656 0.0058

Mercury -58684-06-24 22:18 J -19712732.68 -19712732.57 -19712732.46 0.2678 0.0111
 Venus -58682-09-25 14:09 J -19711909.97 -19711909.91 -19711909.85 0.2715 0.2466
 Mercury -58675-12-23 05:30 J -19709264.38 -19709264.27 -19709264.17 0.2653 0.1859
 Venus -58674-09-23 07:40 J -19708990.31 -19708990.18 -19708990.05 0.2715 0.1416
 Mercury -58671-06-27 16:33 J -19707981.91 -19707981.81 -19707981.71 0.2680 0.1088
 Mercury -58664-06-20 14:37 J -19705431.98 -19705431.89 -19705431.80 0.2674 0.1716
 Mercury -58658-06-30 10:47 J -19703231.12 -19703231.05 -19703230.98 0.2682 0.2064
 Mercury -58655-12-18 00:42 J -19701964.59 -19701964.47 -19701964.35 0.2658 0.1534
 Mercury -58651-06-23 09:06 J -19700681.23 -19700681.12 -19700681.02 0.2676 0.0712
 Mercury -58642-12-21 05:59 J -19697213.40 -19697213.25 -19697213.09 0.2655 0.0316
 Mercury -58638-06-26 03:21 J -19695930.47 -19695930.36 -19695930.25 0.2678 0.0300
 Mercury -58631-06-19 01:11 J -19693380.49 -19693380.45 -19693380.42 0.2672 0.2541
 Mercury -58629-12-23 11:45 J -19692462.09 -19692462.01 -19692461.92 0.2653 0.2208
 Mercury -58625-06-27 21:35 J -19691179.70 -19691179.60 -19691179.51 0.2680 0.1281
 Mercury -58618-06-21 19:25 J -19688629.78 -19688629.69 -19688629.59 0.2674 0.1522
 Mercury -58612-06-30 15:35 J -19686428.91 -19686428.85 -19686428.79 0.2682 0.2248
 Mercury -58609-12-18 07:11 J -19685162.34 -19685162.20 -19685162.07 0.2657 0.1196
 Mercury -58605-06-23 13:54 J -19683879.03 -19683878.92 -19683878.81 0.2676 0.0514
 Mercury -58596-12-21 12:28 J -19680411.13 -19680410.98 -19680410.83 0.2655 0.0658
 Mercury -58592-06-26 08:09 J -19679128.27 -19679128.16 -19679128.05 0.2679 0.0483
 Mercury -58585-06-19 05:59 J -19676578.30 -19676578.25 -19676578.20 0.2672 0.2337
 Mercury -58583-12-24 18:13 J -19675659.77 -19675659.74 -19675659.70 0.2652 0.2551
 Mercury -58579-06-29 02:23 J -19674377.49 -19674377.40 -19674377.31 0.2681 0.1468
 Mercury -58572-06-22 00:28 J -19671827.58 -19671827.48 -19671827.38 0.2675 0.1326
 Mercury -58566-07-01 20:23 J -19669626.69 -19669626.65 -19669626.60 0.2683 0.2434
 Mercury -58563-12-19 13:25 J -19668360.08 -19668359.94 -19668359.79 0.2657 0.0860
 Mercury -58559-06-24 18:42 J -19667076.83 -19667076.72 -19667076.60 0.2677 0.0330
 Mercury -58550-12-22 18:57 J -19663608.85 -19663608.71 -19663608.57 0.2655 0.0998
 Mercury -58546-06-27 12:57 J -19662326.06 -19662325.96 -19662325.85 0.2679 0.0683
 Venus -58544-03-26 00:13 J -19661688.65 -19661688.49 -19661688.32 0.2618 0.0489

Mercury -58539-06-20 11:01 J -19659776.11 -19659776.04 -19659775.98 0.2673 0.2142

Mercury -58533-06-29 07:11 J -19657575.29 -19657575.20 -19657575.11 0.2681 0.1651

Mercury -58530-12-17 14:37 J -19656308.96 -19656308.89 -19656308.82 0.2659 0.2337

Mercury -58526-06-23 05:16 J -19655025.38 -19655025.28 -19655025.18 0.2675 0.1130

Mercury -58520-07-02 01:11 J -19652824.47 -19652824.45 -19652824.43 0.2683 0.2622

Mercury -58517-12-19 19:54 J -19651557.82 -19651557.67 -19651557.52 0.2657 0.0519

Mercury -58513-06-24 23:45 J -19650274.62 -19650274.51 -19650274.40 0.2677 0.0142

Mercury -58504-12-23 01:25 J -19646806.57 -19646806.44 -19646806.31 0.2654 0.1343

Mercury -58500-06-27 17:59 J -19645523.86 -19645523.75 -19645523.65 0.2679 0.0861

Mercury -58493-06-20 15:49 J -19642973.92 -19642973.84 -19642973.76 0.2673 0.1945

Mercury -58487-06-30 11:59 J -19640773.08 -19640773.00 -19640772.92 0.2681 0.1841

Mercury -58484-12-17 21:06 J -19639506.72 -19639506.62 -19639506.52 0.2659 0.2006

Mercury -58480-06-23 10:18 J -19638223.18 -19638223.07 -19638222.97 0.2675 0.0936

Mercury -58471-12-21 02:09 J -19634755.56 -19634755.41 -19634755.25 0.2656 0.0200

Mercury -58467-06-26 04:33 J -19633472.42 -19633472.31 -19633472.20 0.2677 0.0084

Mercury -58458-12-24 07:54 J -19630004.29 -19630004.17 -19630004.05 0.2654 0.1687

Mercury -58454-06-28 22:47 J -19628721.65 -19628721.55 -19628721.45 0.2679 0.1051

Mercury -58447-06-21 20:52 J -19626171.72 -19626171.63 -19626171.55 0.2674 0.1750

Mercury -58441-06-30 17:01 J -19623970.86 -19623970.79 -19623970.72 0.2681 0.2024

Venus -58439-09-25 17:01 J -19623153.85 -19623153.79 -19623153.73 0.2715 0.2472

Mercury -58438-12-19 03:21 J -19622704.48 -19622704.36 -19622704.24 0.2658 0.1678

Mercury -58434-06-24 15:06 J -19621420.98 -19621420.87 -19621420.76 0.2676 0.0742

Venus -58431-09-23 10:47 J -19620234.18 -19620234.05 -19620233.92 0.2715 0.1398

Mercury -58425-12-21 08:37 J -19617953.29 -19617953.14 -19617952.99 0.2656 0.0158

Mercury -58421-06-26 09:35 J -19616670.22 -19616670.10 -19616669.99 0.2678 0.0273

Mercury -58414-06-20 07:11 J -19614120.23 -19614120.20 -19614120.17 0.2672 0.2565

Mercury -58412-12-24 14:23 J -19613202.00 -19613201.90 -19613201.80 0.2653 0.2025

Mercury -58408-06-29 03:35 J -19611919.44 -19611919.35 -19611919.25 0.2680 0.1244

Mercury -58401-06-22 01:40 J -19609369.52 -19609369.43 -19609369.34 0.2674 0.1551

Mercury -58395-07-01 21:49 J -19607168.65 -19607168.59 -19607168.53 0.2682 0.2209

Mercury -58392-12-19 09:35 J -19605902.23 -19605902.10 -19605901.97 0.2658 0.1348

Mercury -58388-06-24 20:09 J -19604618.77 -19604618.66 -19604618.55 0.2676 0.0551

Mercury -58379-12-22 15:06 J -19601151.02 -19601150.87 -19601150.72 0.2656 0.0488

Mercury -58375-06-27 14:23 J -19599868.01 -19599867.90 -19599867.79 0.2678 0.0447

Mercury -58368-06-20 12:13 J -19597318.04 -19597317.99 -19597317.94 0.2672 0.2369

Mercury -58366-12-25 20:52 J -19596399.70 -19596399.63 -19596399.57 0.2653 0.2371

Mercury -58362-06-30 08:37 J -19595117.24 -19595117.14 -19595117.05 0.2680 0.1425

Mercury -58355-06-23 06:42 J -19592567.32 -19592567.22 -19592567.13 0.2674 0.1357

Mercury -58349-07-02 02:37 J -19590366.43 -19590366.39 -19590366.34 0.2682 0.2392

Mercury -58346-12-20 16:04 J -19589099.97 -19589099.83 -19589099.69 0.2658 0.1012

Mercury -58342-06-26 00:57 J -19587816.57 -19587816.46 -19587816.35 0.2676 0.0355

Mercury -58333-12-22 21:35 J -19584348.75 -19584348.60 -19584348.46 0.2655 0.0831

Mercury -58329-06-27 19:11 J -19583065.81 -19583065.70 -19583065.59 0.2678 0.0636

Mercury -58322-06-21 17:01 J -19580515.85 -19580515.79 -19580515.73 0.2672 0.2173

Mercury -58316-06-30 13:25 J -19578315.03 -19578314.94 -19578314.85 0.2680 0.1612

Mercury -58313-12-17 17:30 J -19577048.82 -19577048.77 -19577048.72 0.2660 0.2467

Mercury -58309-06-23 11:30 J -19575765.12 -19575765.02 -19575764.92 0.2674 0.1161

Mercury -58303-07-03 07:40 J -19573564.21 -19573564.18 -19573564.16 0.2682 0.2577

Venus -58301-03-25 23:01 J -19572932.70 -19572932.54 -19572932.38 0.2618 0.0595

Mercury -58300-12-20 22:33 J -19572297.71 -19572297.56 -19572297.42 0.2657 0.0679

Mercury -58296-06-26 05:59 J -19571014.37 -19571014.25 -19571014.14 0.2676 0.0178

Mercury -58287-12-24 03:49 J -19567546.47 -19567546.34 -19567546.20 0.2655 0.1170

Mercury -58283-06-29 00:13 J -19566263.60 -19566263.49 -19566263.39 0.2679 0.0830

Mercury -58276-06-21 22:04 J -19563713.66 -19563713.58 -19563713.51 0.2673 0.1977

Mercury -58270-07-01 18:13 J -19561512.82 -19561512.74 -19561512.65 0.2681 0.1799

Mercury -58267-12-18 23:45 J -19560246.60 -19560246.51 -19560246.42 0.2659 0.2145

Mercury -58263-06-24 16:33 J -19558962.92 -19558962.81 -19558962.71 0.2675 0.0973

Mercury -58254-12-22 05:01 J -19555495.45 -19555495.29 -19555495.14 0.2657 0.0346

Mercury -58250-06-27 10:47 J -19554212.16 -19554212.05 -19554211.94 0.2677 0.0031

Mercury -58241-12-24 10:33 J -19550744.19 -19550744.06 -19550743.94 0.2654 0.1513

Mercury -58237-06-29 05:01 J -19549461.39 -19549461.29 -19549461.19 0.2679 0.1013

Mercury -58230-06-23 02:52 J -19546911.46 -19546911.38 -19546911.30 0.2673 0.1779

Mercury -58224-07-01 23:16 J -19544710.61 -19544710.53 -19544710.46 0.2681 0.1986

Mercury -58221-12-19 05:59 J -19543444.35 -19543444.25 -19543444.14 0.2659 0.1816

Mercury -58217-06-24 21:21 J -19542160.72 -19542160.61 -19542160.50 0.2675 0.0776

Mercury -58208-12-22 11:16 J -19538693.18 -19538693.03 -19538692.88 0.2656 0.0013

Mercury -58204-06-27 15:35 J -19537409.96 -19537409.85 -19537409.73 0.2677 0.0232

Mercury -58197-06-20 13:11 J -19534859.97 -19534859.95 -19534859.92 0.2671 0.2599

Venus -58196-09-25 20:09 J -19534397.72 -19534397.66 -19534397.60 0.2715 0.2486

Mercury -58195-12-25 16:47 J -19533941.91 -19533941.80 -19533941.69 0.2654 0.1852

Mercury -58191-06-30 09:49 J -19532659.19 -19532659.09 -19532658.99 0.2679 0.1202

Venus -58188-09-23 13:54 J -19531478.05 -19531477.92 -19531477.79 0.2715 0.1365

Mercury -58184-06-23 07:54 J -19530109.26 -19530109.17 -19530109.08 0.2673 0.1585

Mercury -58178-07-03 04:04 J -19527908.39 -19527908.33 -19527908.27 0.2681 0.2166

Mercury -58175-12-20 12:28 J -19526642.10 -19526641.98 -19526641.86 0.2659 0.1489

Mercury -58171-06-26 02:09 J -19525358.52 -19525358.41 -19525358.30 0.2675 0.0588

Mercury -58162-12-23 17:45 J -19521890.91 -19521890.76 -19521890.61 0.2656 0.0330

Mercury -58158-06-28 20:37 J -19520607.75 -19520607.64 -19520607.53 0.2677 0.0413

Mercury -58151-06-21 18:13 J -19518057.79 -19518057.74 -19518057.69 0.2671 0.2401

Mercury -58149-12-25 23:16 J -19517139.61 -19517139.53 -19517139.44 0.2654 0.2189

Mercury -58145-06-30 14:52 J -19515856.98 -19515856.88 -19515856.79 0.2679 0.1386

Mercury -58138-06-24 12:42 J -19513307.06 -19513306.97 -19513306.87 0.2674 0.1390

Mercury -58132-07-03 08:52 J -19511106.18 -19511106.13 -19511106.08 0.2681 0.2353

Mercury -58129-12-20 18:42 J -19509839.85 -19509839.72 -19509839.58 0.2658 0.1161

Mercury -58125-06-26 07:11 J -19508556.31 -19508556.20 -19508556.09 0.2676 0.0391

Mercury -58116-12-23 23:59 J -19505088.64 -19505088.50 -19505088.35 0.2656 0.0664

Mercury -58112-06-29 01:25 J -19503805.55 -19503805.44 -19503805.33 0.2678 0.0598

Mercury -58105-06-21 23:16 J -19501255.60 -19501255.53 -19501255.47 0.2672 0.2204

Mercury -58103-12-27 05:45 J -19500337.30 -19500337.26 -19500337.22 0.2653 0.2531

Mercury -58099-07-01 19:40 J -19499054.77 -19499054.68 -19499054.59 0.2680 0.1572

Mercury -58096-12-18 20:09 J -19497788.68 -19497788.66 -19497788.63 0.2660 0.2609

Mercury -58092-06-24 17:45 J -19496504.86 -19496504.76 -19496504.66 0.2674 0.1198

Mercury -58086-07-04 13:54 J -19494303.96 -19494303.92 -19494303.89 0.2682 0.2533

Mercury -58083-12-22 01:11 J -19493037.60 -19493037.45 -19493037.31 0.2658 0.0832

Mercury -58079-06-27 11:59 J -19491754.11 -19491754.00 -19491753.89 0.2676 0.0205

Mercury -58070-12-25 06:28 J -19488286.37 -19488286.23 -19488286.09 0.2655 0.0999

Mercury -58066-06-30 06:28 J -19487003.34 -19487003.23 -19487003.13 0.2678 0.0791

Mercury -58059-06-23 04:04 J -19484453.40 -19484453.33 -19484453.25 0.2672 0.2008

Venus -58058-03-26 21:35 J -19484176.76 -19484176.60 -19484176.44 0.2618 0.0701

Mercury -58053-07-02 00:28 J -19482252.56 -19482252.48 -19482252.39 0.2680 0.1761

Mercury -58050-12-20 02:37 J -19480986.47 -19480986.39 -19480986.32 0.2660 0.2281

Mercury -58046-06-25 22:33 J -19479702.66 -19479702.56 -19479702.45 0.2674 0.1003

Mercury -58037-12-22 07:25 J -19476235.34 -19476235.19 -19476235.04 0.2658 0.0505

Mercury -58033-06-27 17:01 J -19474951.91 -19474951.79 -19474951.68 0.2676 0.0067

Mercury -58024-12-25 12:57 J -19471484.10 -19471483.96 -19471483.83 0.2655 0.1329

Mercury -58020-06-30 11:16 J -19470201.13 -19470201.03 -19470200.93 0.2678 0.0974

Mercury -58013-06-23 09:06 J -19467651.20 -19467651.12 -19467651.04 0.2672 0.1812

Mercury -58007-07-03 05:30 J -19465450.35 -19465450.27 -19465450.20 0.2680 0.1940

Mercury -58004-12-20 08:52 J -19464184.23 -19464184.13 -19464184.03 0.2660 0.1955

58TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 58th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
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Mercury -58000-06-26 03:35 J -19462900.46 -19462900.35 -19462900.25 0.2674 0.0813

Mercury -57991-12-23 13:54 J -19459433.07 -19459432.92 -19459432.77 0.2657 0.0170

Mercury -57987-06-28 21:49 J -19458149.70 -19458149.59 -19458149.48 0.2677 0.0185

Mercury -57980-06-21 19:25 J -19455599.71 -19455599.69 -19455599.68 0.2671 0.2630

Mercury -57978-12-26 19:25 J -19454681.81 -19454681.69 -19454681.58 0.2655 0.1671

Mercury -57974-07-01 16:04 J -19453398.93 -19453398.83 -19453398.73 0.2679 0.1162

Mercury -57967-06-24 13:54 J -19450849.01 -19450848.92 -19450848.83 0.2673 0.1620

Mercury -57961-07-03 10:18 J -19448648.14 -19448648.07 -19448648.00 0.2681 0.2127

Mercury -57958-12-21 15:21 J -19447381.98 -19447381.86 -19447381.75 0.2659 0.1628

Mercury -57954-06-27 08:23 J -19446098.26 -19446098.15 -19446098.04 0.2675 0.0618

Venus -57953-09-25 23:30 J -19445641.58 -19445641.52 -19445641.47 0.2715 0.2523

Venus -57945-09-23 17:16 J -19442721.91 -19442721.78 -19442721.65 0.2715 0.1323

Mercury -57945-12-23 20:23 J -19442630.80 -19442630.65 -19442630.50 0.2657 0.0170

Mercury -57941-06-29 02:52 J -19441347.49 -19441347.38 -19441347.27 0.2677 0.0380

Mercury -57934-06-23 00:13 J -19438797.53 -19438797.49 -19438797.44 0.2671 0.2437

Mercury -57932-12-27 01:54 J -19437879.52 -19437879.42 -19437879.32 0.2655 0.2009

Mercury -57928-07-01 21:06 J -19436596.72 -19436596.62 -19436596.53 0.2679 0.1350

Mercury -57921-06-24 18:57 J -19434046.81 -19434046.71 -19434046.62 0.2673 0.1425

Mercury -57915-07-04 15:06 J -19431845.92 -19431845.87 -19431845.81 0.2681 0.2309

Mercury -57912-12-21 21:35 J -19430579.73 -19430579.60 -19430579.47 0.2659 0.1307

Mercury -57908-06-27 13:11 J -19429296.06 -19429295.95 -19429295.83 0.2675 0.0442

Mercury -57899-12-25 02:37 J -19425828.53 -19425828.39 -19425828.24 0.2656 0.0507

Mercury -57895-06-30 07:40 J -19424545.29 -19424545.18 -19424545.07 0.2677 0.0558

Mercury -57888-06-23 05:16 J -19421995.34 -19421995.28 -19421995.22 0.2671 0.2239

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Mercury -57875-06-25 23:45 J -19417244.61 -19417244.51 -19417244.41 0.2673 0.1233

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Mercury -57866-12-23 03:49 J -19413777.48 -19413777.34 -19413777.20 0.2658 0.0981

Mercury -57862-06-28 18:13 J -19412493.85 -19412493.74 -19412493.63 0.2675 0.0237

Mercury -57853-12-25 09:06 J -19409026.27 -19409026.12 -19409025.98 0.2656 0.0825

Mercury -57849-06-30 12:28 J -19407743.08 -19407742.98 -19407742.87 0.2677 0.0753

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Mercury -57833-12-20 05:16 J -19401726.34 -19401726.28 -19401726.22 0.2661 0.2417

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Venus -57815-03-26 20:09 J -19395420.82 -19395420.66 -19395420.50 0.2618 0.0809

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Mercury -57770-06-30 04:04 J -19378889.44 -19378889.33 -19378889.22 0.2676 0.0143

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Mercury -57761-12-26 21:49 J -19375421.71 -19375421.59 -19375421.46 0.2655 0.1496

Mercury -57757-07-01 22:18 J -19374138.67 -19374138.57 -19374138.47 0.2678 0.1120

Mercury -57750-06-25 20:09 J -19371588.75 -19371588.66 -19371588.57 0.2672 0.1652

Mercury -57744-07-04 16:33 J -19369387.88 -19369387.81 -19369387.74 0.2680 0.2081

Mercury -57741-12-21 17:59 J -19368121.86 -19368121.75 -19368121.64 0.2660 0.1778

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Mercury -57728-12-24 23:01 J -19363370.70 -19363370.54 -19363370.39 0.2657 0.0054

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Mercury -57715-12-28 04:18 J -19358619.43 -19358619.32 -19358619.21 0.2655 0.1829

Mercury -57711-07-03 03:21 J -19357336.46 -19357336.36 -19357336.27 0.2678 0.1309

Venus -57710-09-27 02:37 J -19356885.44 -19356885.39 -19356885.34 0.2715 0.2550

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Venus -57702-09-24 20:37 J -19353965.78 -19353965.64 -19353965.51 0.2715 0.1276

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Mercury -57678-07-01 13:54 J -19345285.03 -19345284.92 -19345284.81 0.2677 0.0522

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Mercury -57669-12-28 10:47 J -19341817.14 -19341817.05 -19341816.96 0.2655 0.2160

Mercury -57665-07-03 08:09 J -19340534.25 -19340534.16 -19340534.07 0.2679 0.1490

Mercury -57658-06-27 05:59 J -19337984.35 -19337984.25 -19337984.15 0.2673 0.1266

Mercury -57652-07-06 02:23 J -19335783.45 -19335783.40 -19335783.36 0.2681 0.2446

Mercury -57649-12-23 06:42 J -19334517.36 -19334517.22 -19334517.08 0.2659 0.1125

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Mercury -57632-07-01 18:42 J -19328482.83 -19328482.72 -19328482.61 0.2677 0.0710

Mercury -57625-06-24 16:18 J -19325932.89 -19325932.82 -19325932.75 0.2671 0.2078

Mercury -57623-12-29 17:16 J -19325014.83 -19325014.78 -19325014.73 0.2654 0.2497

Mercury -57619-07-04 12:57 J -19323732.04 -19323731.96 -19323731.87 0.2679 0.1675

Mercury -57616-12-21 08:23 J -19322466.19 -19322466.15 -19322466.12 0.2661 0.2550

Mercury -57612-06-27 10:47 J -19321182.15 -19321182.05 -19321181.94 0.2673 0.1079

Mercury -57606-07-07 07:11 J -19318981.22 -19318981.20 -19318981.18 0.2681 0.2628

Mercury -57603-12-24 12:57 J -19317715.10 -19317714.96 -19317714.81 0.2659 0.0804

Mercury -57599-06-30 05:16 J -19316431.39 -19316431.28 -19316431.16 0.2675 0.0108

Mercury -57590-12-27 18:13 J -19312963.88 -19312963.74 -19312963.60 0.2656 0.0996

Mercury -57586-07-02 23:45 J -19311680.62 -19311680.51 -19311680.41 0.2677 0.0896

Mercury -57579-06-25 21:21 J -19309130.69 -19309130.61 -19309130.53 0.2671 0.1884

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Venus -57572-03-26 18:42 J -19306664.87 -19306664.72 -19306664.56 0.2618 0.0919

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Mercury -57566-06-28 15:49 J -19304379.95 -19304379.84 -19304379.73 0.2673 0.0883

Mercury -57557-12-24 19:25 J -19300912.84 -19300912.69 -19300912.54 0.2658 0.0486

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Mercury -57540-07-03 04:33 J -19294878.41 -19294878.31 -19294878.21 0.2678 0.1079

Mercury -57533-06-26 02:09 J -19292328.49 -19292328.41 -19292328.32 0.2672 0.1691

Mercury -57527-07-05 22:47 J -19290127.62 -19290127.55 -19290127.48 0.2680 0.2039

Mercury -57524-12-22 20:52 J -19288861.73 -19288861.63 -19288861.53 0.2660 0.1915

Mercury -57520-06-28 20:37 J -19287577.74 -19287577.64 -19287577.53 0.2674 0.0700

Mercury -57511-12-26 01:40 J -19284110.58 -19284110.43 -19284110.28 0.2658 0.0158

Mercury -57507-07-01 15:06 J -19282826.98 -19282826.87 -19282826.76 0.2676 0.0294

Mercury -57500-06-24 12:28 J -19280277.01 -19280276.98 -19280276.94 0.2670 0.2502

Mercury -57498-12-29 06:57 J -19279359.33 -19279359.21 -19279359.09 0.2656 0.1650

Mercury -57494-07-04 09:21 J -19278076.20 -19278076.11 -19278076.01 0.2678 0.1266

Mercury -57487-06-27 07:11 J -19275526.29 -19275526.20 -19275526.11 0.2672 0.1493

Mercury -57481-07-06 03:35 J -19273325.41 -19273325.35 -19273325.29 0.2680 0.2222

Mercury -57478-12-24 03:06 J -19272059.49 -19272059.37 -19272059.25 0.2660 0.1594

Mercury -57474-06-30 01:40 J -19270775.54 -19270775.43 -19270775.32 0.2674 0.0502

Venus -57467-09-27 06:13 J -19268129.28 -19268129.24 -19268129.20 0.2715 0.2600

Mercury -57465-12-26 08:09 J -19267308.31 -19267308.16 -19267308.01 0.2658 0.0174

Mercury -57461-07-01 20:09 J -19266024.78 -19266024.66 -19266024.55 0.2676 0.0490

Venus -57459-09-24 23:59 J -19265209.63 -19265209.50 -19265209.36 0.2715 0.1215

Mercury -57454-06-25 17:30 J -19263474.83 -19263474.77 -19263474.72 0.2670 0.2305

Mercury -57452-12-29 13:25 J -19262557.04 -19262556.94 -19262556.84 0.2655 0.1984

Mercury -57448-07-04 14:23 J -19261273.99 -19261273.90 -19261273.81 0.2678 0.1446

Mercury -57441-06-27 11:59 J -19258724.09 -19258724.00 -19258723.90 0.2672 0.1308

Mercury -57435-07-07 08:37 J -19256523.19 -19256523.14 -19256523.10 0.2680 0.2402

Mercury -57432-12-24 09:21 J -19255257.24 -19255257.11 -19255256.97 0.2660 0.1280

Mercury -57428-06-30 06:28 J -19253973.34 -19253973.23 -19253973.11 0.2674 0.0330

Mercury -57419-12-27 14:23 J -19250506.05 -19250505.90 -19250505.75 0.2657 0.0496

Mercury -57415-07-03 00:57 J -19249222.57 -19249222.46 -19249222.35 0.2676 0.0666

Mercury -57408-06-25 22:33 J -19246672.63 -19246672.56 -19246672.50 0.2671 0.2114

Mercury -57406-12-30 19:54 J -19245754.75 -19245754.67 -19245754.60 0.2655 0.2315

Mercury -57402-07-05 19:11 J -19244471.79 -19244471.70 -19244471.61 0.2678 0.1631

Mercury -57395-06-28 17:01 J -19241921.89 -19241921.79 -19241921.69 0.2673 0.1109

Mercury -57389-07-07 13:25 J -19239720.97 -19239720.94 -19239720.91 0.2680 0.2579

Mercury -57386-12-25 15:49 J -19238454.98 -19238454.84 -19238454.70 0.2659 0.0956

Mercury -57382-07-01 11:30 J -19237171.13 -19237171.02 -19237170.91 0.2675 0.0127

Mercury -57373-12-27 20:52 J -19233703.78 -19233703.63 -19233703.49 0.2657 0.0821

Mercury -57369-07-03 05:59 J -19232420.36 -19232420.25 -19232420.15 0.2677 0.0860

Mercury -57362-06-27 03:21 J -19229870.44 -19229870.36 -19229870.28 0.2671 0.1918

Mercury -57360-12-31 02:09 J -19228952.42 -19228952.41 -19228952.40 0.2655 0.2644

Mercury -57356-07-06 00:13 J -19227669.57 -19227669.49 -19227669.41 0.2679 0.1815

Mercury -57353-12-22 17:30 J -19226403.84 -19226403.77 -19226403.70 0.2661 0.2362

Mercury -57349-06-28 21:49 J -19225119.69 -19225119.59 -19225119.48 0.2673 0.0929

Mercury -57340-12-25 22:04 J -19221652.72 -19221652.58 -19221652.43 0.2659 0.0636

Mercury -57336-07-01 16:18 J -19220368.93 -19220368.82 -19220368.70 0.2675 0.0122

Venus -57329-03-26 17:16 J -19217908.93 -19217908.78 -19217908.63 0.2618 0.1033

Mercury -57327-12-29 03:06 J -19216901.50 -19216901.37 -19216901.23 0.2657 0.1149

Mercury -57323-07-04 10:47 J -19215618.15 -19215618.05 -19215617.95 0.2677 0.1037

Mercury -57316-06-27 08:23 J -19213068.24 -19213068.15 -19213068.07 0.2671 0.1723

Mercury -57310-07-07 05:01 J -19210867.36 -19210867.29 -19210867.22 0.2679 0.1995

Mercury -57307-12-23 23:45 J -19209601.60 -19209601.51 -19209601.42 0.2661 0.2048

Mercury -57303-06-30 02:52 J -19208317.49 -19208317.38 -19208317.27 0.2673 0.0729

Mercury -57294-12-27 04:33 J -19204850.46 -19204850.31 -19204850.16 0.2659 0.0308

Mercury -57290-07-02 21:21 J -19203566.72 -19203566.61 -19203566.50 0.2675 0.0252

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Mercury -57281-12-29 09:35 J -19200099.22 -19200099.10 -19200098.97 0.2656 0.1480

Mercury -57277-07-04 15:35 J -19198815.95 -19198815.85 -19198815.75 0.2677 0.1224

Mercury -57270-06-28 13:11 J -19196266.04 -19196265.95 -19196265.85 0.2671 0.1536

Mercury -57264-07-07 09:49 J -19194065.15 -19194065.09 -19194065.02 0.2679 0.2179

Mercury -57261-12-24 05:59 J -19192799.36 -19192799.25 -19192799.13 0.2661 0.1737

Mercury -57257-06-30 07:54 J -19191515.28 -19191515.17 -19191515.06 0.2674 0.0548

Mercury -57248-12-27 10:47 J -19188048.20 -19188048.05 -19188047.90 0.2658 0.0019

Mercury -57244-07-03 02:09 J -19186764.52 -19186764.41 -19186764.29 0.2676 0.0450

Mercury -57237-06-25 23:30 J -19184214.57 -19184214.52 -19184214.46 0.2670 0.2345

Mercury -57235-12-30 16:04 J -19183296.94 -19183296.83 -19183296.72 0.2656 0.1810

Mercury -57231-07-05 20:37 J -19182013.74 -19182013.64 -19182013.55 0.2678 0.1405

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Venus -57224-09-27 09:35 J -19179373.13 -19179373.10 -19179373.07 0.2714 0.2653

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Venus -57216-09-25 03:35 J -19176453.49 -19176453.35 -19176453.22 0.2715 0.1153

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Mercury -57211-07-01 12:42 J -19174713.08 -19174712.97 -19174712.86 0.2674 0.0353

Mercury -57202-12-28 17:16 J -19171245.93 -19171245.78 -19171245.63 0.2658 0.0337

Mercury -57198-07-04 07:11 J -19169962.31 -19169962.20 -19169962.09 0.2676 0.0624

Mercury -57191-06-27 04:33 J -19167412.38 -19167412.31 -19167412.24 0.2670 0.2146

Mercury -57189-12-30 22:18 J -19166494.66 -19166494.57 -19166494.48 0.2656 0.2134

Mercury -57185-07-06 01:25 J -19165211.53 -19165211.44 -19165211.35 0.2678 0.1590

Mercury -57178-06-29 23:01 J -19162661.64 -19162661.54 -19162661.43 0.2672 0.1156

Mercury -57172-07-08 19:40 J -19160460.71 -19160460.68 -19160460.65 0.2680 0.2535

Mercury -57169-12-25 18:42 J -19159194.86 -19159194.72 -19159194.59 0.2660 0.1107

Mercury -57165-07-01 17:45 J -19157910.88 -19157910.76 -19157910.65 0.2674 0.0185

Mercury -57156-12-28 23:30 J -19154443.67 -19154443.52 -19154443.37 0.2658 0.0653

Mercury -57152-07-04 11:59 J -19153160.10 -19153160.00 -19153159.89 0.2676 0.0813

Mercury -57145-06-27 09:35 J -19150610.18 -19150610.10 -19150610.03 0.2670 0.1955

Mercury -57142-01-01 04:47 J -19149692.35 -19149692.30 -19149692.24 0.2655 0.2460

Mercury -57139-07-07 06:13 J -19148409.32 -19148409.24 -19148409.15 0.2678 0.1770

Mercury -57136-12-23 20:23 J -19147143.70 -19147143.65 -19147143.60 0.2662 0.2502

Mercury -57132-06-30 04:04 J -19145859.43 -19145859.33 -19145859.22 0.2672 0.0957

Mercury -57123-12-27 00:57 J -19142392.60 -19142392.46 -19142392.32 0.2660 0.0786

Mercury -57119-07-02 22:33 J -19141108.67 -19141108.56 -19141108.45 0.2675 0.0035

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Mercury -57106-07-05 17:01 J -19136357.90 -19136357.79 -19136357.69 0.2677 0.0994

Mercury -57099-06-28 14:23 J -19133807.98 -19133807.90 -19133807.81 0.2671 0.1763

Mercury -57093-07-07 11:16 J -19131607.11 -19131607.03 -19131606.96 0.2679 0.1950

Mercury -57090-12-25 02:37 J -19130341.47 -19130341.39 -19130341.30 0.2662 0.2187

Venus -57086-03-27 15:35 J -19129153.00 -19129152.85 -19129152.70 0.2619 0.1155

Mercury -57086-07-01 09:06 J -19129057.23 -19129057.12 -19129057.01 0.2673 0.0772

Mercury -57077-12-27 07:11 J -19125590.35 -19125590.20 -19125590.05 0.2659 0.0473

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Mercury -57064-12-30 12:13 J -19120839.12 -19120838.99 -19120838.86 0.2657 0.1302

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Mercury -57053-06-28 19:25 J -19117005.78 -19117005.69 -19117005.60 0.2671 0.1572

Mercury -57047-07-08 16:04 J -19114804.89 -19114804.83 -19114804.76 0.2679 0.2131

Mercury -57044-12-25 08:52 J -19113539.23 -19113539.13 -19113539.02 0.2661 0.1876

Mercury -57040-07-01 13:54 J -19112255.03 -19112254.92 -19112254.81 0.2673 0.0582

Mercury -57031-12-28 13:40 J -19108788.08 -19108787.93 -19108787.78 0.2659 0.0150

Mercury -57027-07-04 08:23 J -19107504.26 -19107504.15 -19107504.04 0.2675 0.0396

Mercury -57020-06-27 05:45 J -19104954.31 -19104954.26 -19104954.21 0.2669 0.2381

Mercury -57018-12-31 18:42 J -19104036.84 -19104036.72 -19104036.60 0.2657 0.1626

Mercury -57014-07-07 02:52 J -19102753.48 -19102753.38 -19102753.29 0.2677 0.1365

Mercury -57007-06-30 00:13 J -19100203.58 -19100203.49 -19100203.39 0.2671 0.1382

Mercury -57001-07-08 21:06 J -19098002.68 -19098002.62 -19098002.57 0.2679 0.2312

57TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 57th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-56998-12-26 15:21 J	-19096736.99	-19096736.86	-19096736.74	0.2661	0.1563		
Mercury	-56994-07-02 18:57 J	-19095452.82	-19095452.71	-19095452.60	0.2673	0.0398		
Mercury	-56985-12-28 19:54 J	-19091985.82	-19091985.67	-19091985.52	0.2659	0.0172		
Mercury	-56981-07-04 13:25 J	-19090702.05	-19090701.94	-19090701.83	0.2675	0.0590		
Venus	-56981-09-27 13:11 J	-19090616.96	-19090616.95	-19090616.95	0.2714	0.2708		
Mercury	-56974-06-28 10:33 J	-19088152.12	-19088152.06	-19088151.99	0.2670	0.2187		
Venus	-56973-09-25 07:11 J	-19087697.34	-19087697.20	-19087697.06	0.2715	0.1071		
Mercury	-56971-01-01 00:57 J	-19087234.56	-19087234.46	-19087234.35	0.2656	0.1955		
Mercury	-56968-07-07 07:40 J	-19085951.27	-19085951.18	-19085951.09	0.2677	0.1542		
Mercury	-56961-06-30 05:16 J	-19083401.38	-19083401.28	-19083401.18	0.2672	0.1189		
Mercury	-56955-07-10 01:54 J	-19081200.46	-19081200.42	-19081200.38	0.2679	0.2489		
Mercury	-56952-12-26 21:35 J	-19079934.73	-19079934.60	-19079934.47	0.2661	0.1250		
Mercury	-56948-07-02 23:45 J	-19078650.62	-19078650.51	-19078650.39	0.2674	0.0212		
Mercury	-56939-12-30 02:23 J	-19075183.55	-19075183.40	-19075183.25	0.2658	0.0496		
Mercury	-56935-07-05 18:13 J	-19073899.85	-19073899.74	-19073899.63	0.2676	0.0764		
Mercury	-56928-06-28 15:35 J	-19071349.93	-19071349.85	-19071349.78	0.2670	0.1995		
Mercury	-56925-01-02 07:25 J	-19070432.26	-19070432.19	-19070432.11	0.2656	0.2279		
Mercury	-56922-07-08 12:28 J	-19069149.06	-19069148.98	-19069148.89	0.2678	0.1728		
Mercury	-56919-12-24 23:16 J	-19067883.54	-19067883.53	-19067883.51	0.2663	0.2631		
Mercury	-56915-07-01 10:18 J	-19066599.18	-19066599.07	-19066598.97	0.2672	0.1005		
Mercury	-56909-07-10 06:42 J	-19064398.22	-19064398.22	-19064398.21	0.2680	0.2669		
Mercury	-56906-12-28 03:49 J	-19063132.48	-19063132.34	-19063132.20	0.2660	0.0939		

Mercury -56902-07-04 04:47 J -19061848.41 -19061848.30 -19061848.19 0.2674 0.0041

Mercury -56893-12-30 08:37 J -19058381.28 -19058381.14 -19058381.00 0.2658 0.0809

Mercury -56889-07-05 23:01 J -19057097.64 -19057097.54 -19057097.43 0.2676 0.0958

Mercury -56882-06-29 20:37 J -19054547.73 -19054547.64 -19054547.56 0.2670 0.1805

Mercury -56879-01-02 13:54 J -19053629.95 -19053629.92 -19053629.90 0.2656 0.2606

Mercury -56876-07-08 17:30 J -19052346.85 -19052346.77 -19052346.69 0.2678 0.1903

Mercury -56873-12-25 05:30 J -19051081.34 -19051081.27 -19051081.20 0.2662 0.2329

Mercury -56869-07-01 15:06 J -19049796.98 -19049796.87 -19049796.76 0.2672 0.0811

Mercury -56860-12-28 10:04 J -19046330.23 -19046330.08 -19046329.93 0.2660 0.0623

Mercury -56856-07-04 09:35 J -19045046.21 -19045046.10 -19045045.98 0.2674 0.0173

Mercury -56849-06-27 06:42 J -19042496.24 -19042496.22 -19042496.20 0.2668 0.2612

Mercury -56847-12-31 15:06 J -19041579.01 -19041578.87 -19041578.74 0.2657 0.1132

Venus -56843-03-27 13:54 J -19040397.06 -19040396.92 -19040396.77 0.2619 0.1278

Mercury -56843-07-07 04:04 J -19040295.43 -19040295.33 -19040295.23 0.2676 0.1132

Mercury -56836-06-30 01:25 J -19037745.53 -19037745.44 -19037745.35 0.2671 0.1610

Mercury -56830-07-09 22:18 J -19035544.64 -19035544.57 -19035544.50 0.2678 0.2086

Mercury -56827-12-26 11:45 J -19034279.10 -19034279.01 -19034278.91 0.2662 0.2017

Mercury -56823-07-02 20:09 J -19032994.77 -19032994.66 -19032994.55 0.2673 0.0626

Mercury -56814-12-29 16:18 J -19029527.97 -19029527.82 -19029527.67 0.2660 0.0315

Mercury -56810-07-05 14:37 J -19028244.00 -19028243.89 -19028243.78 0.2675 0.0357

Mercury -56803-06-28 11:45 J -19025694.06 -19025694.01 -19025693.96 0.2669 0.2417

Mercury -56801-12-31 21:21 J -19024776.74 -19024776.61 -19024776.49 0.2657 0.1449

Mercury -56797-07-07 08:52 J -19023493.22 -19023493.13 -19023493.03 0.2677 0.1318

Mercury -56790-07-01 06:28 J -19020943.33 -19020943.23 -19020943.13 0.2671 0.1419

Mercury -56784-07-10 03:21 J -19018742.42 -19018742.36 -19018742.31 0.2679 0.2260

Mercury -56781-12-26 18:13 J -19017476.86 -19017476.74 -19017476.63 0.2662 0.1709

Mercury -56777-07-03 00:57 J -19016192.57 -19016192.46 -19016192.34 0.2673 0.0439

Mercury -56768-12-29 22:47 J -19012725.70 -19012725.55 -19012725.40 0.2659 0.0047

Mercury -56764-07-05 19:25 J -19011441.80 -19011441.69 -19011441.58 0.2675 0.0541

Mercury -56757-06-28 16:47 J -19008891.87 -19008891.80 -19008891.74 0.2669 0.2229

Mercury -56754-01-02 03:35 J -19007974.46 -19007974.35 -19007974.23 0.2657 0.1772

Mercury -56751-07-08 13:54 J -19006691.01 -19006690.92 -19006690.83 0.2677 0.1495

Mercury -56744-07-01 11:16 J -19004141.13 -19004141.03 -19004140.92 0.2671 0.1235

Mercury -56738-07-11 08:09 J -19001940.20 -19001940.16 -19001940.12 0.2679 0.2440

Mercury -56735-12-28 00:28 J -19000674.61 -19000674.48 -19000674.35 0.2661 0.1395

Mercury -56731-07-04 05:59 J -18999390.36 -18999390.25 -18999390.14 0.2673 0.0247

Venus -56730-09-26 10:47 J -18998941.19 -18998941.05 -18998940.91 0.2714 0.1001

Mercury -56722-12-31 05:01 J -18995923.44 -18995923.29 -18995923.14 0.2659 0.0323

Mercury -56718-07-07 00:28 J -18994639.59 -18994639.48 -18994639.37 0.2675 0.0724

Mercury -56711-06-29 21:35 J -18992089.67 -18992089.60 -18992089.52 0.2669 0.2035

Mercury -56708-01-02 10:04 J -18991172.17 -18991172.08 -18991171.99 0.2657 0.2095

Mercury -56705-07-08 18:42 J -18989888.80 -18989888.72 -18989888.63 0.2677 0.1678

Mercury -56698-07-02 16:18 J -18987338.92 -18987338.82 -18987338.71 0.2672 0.1041

Mercury -56692-07-11 12:57 J -18985137.98 -18985137.96 -18985137.94 0.2679 0.2616

Mercury -56689-12-28 06:42 J -18983872.36 -18983872.22 -18983872.08 0.2661 0.1085

Mercury -56685-07-04 10:47 J -18982588.16 -18982588.05 -18982587.93 0.2673 0.0097

Mercury -56676-12-31 11:30 J -18979121.17 -18979121.02 -18979120.88 0.2658 0.0648

Mercury -56672-07-07 05:16 J -18977837.38 -18977837.28 -18977837.17 0.2676 0.0906

Mercury -56665-06-30 02:37 J -18975287.47 -18975287.39 -18975287.31 0.2670 0.1843

Mercury -56662-01-03 16:33 J -18974369.87 -18974369.81 -18974369.75 0.2656 0.2415

Mercury -56659-07-09 23:45 J -18973086.59 -18973086.51 -18973086.43 0.2678 0.1859

Mercury -56656-12-26 08:37 J -18971821.19 -18971821.14 -18971821.09 0.2663 0.2457

Mercury -56652-07-02 21:21 J -18970536.72 -18970536.61 -18970536.51 0.2672 0.0858

Mercury -56643-12-29 12:57 J -18967070.10 -18967069.96 -18967069.82 0.2660 0.0776

Mercury -56639-07-05 15:49 J -18965785.95 -18965785.84 -18965785.73 0.2674 0.0125

Mercury -56632-06-28 12:42 J -18963235.97 -18963235.97 -18963235.96 0.2668 0.2654

Mercury -56629-01-01 17:45 J -18962318.90 -18962318.76 -18962318.62 0.2658 0.0958

Mercury -56626-07-08 10:18 J -18961035.18 -18961035.07 -18961034.97 0.2676 0.1089

Mercury -56619-07-01 07:40 J -18958485.27 -18958485.18 -18958485.09 0.2670 0.1653

Mercury -56613-07-10 04:33 J -18956284.38 -18956284.31 -18956284.24 0.2678 0.2032

Mercury -56610-12-27 14:52 J -18955018.97 -18955018.88 -18955018.80 0.2663 0.2155

Mercury -56606-07-04 02:09 J -18953734.52 -18953734.41 -18953734.30 0.2672 0.0667

Venus -56600-03-27 11:59 J -18951641.14 -18951641.00 -18951640.86 0.2619 0.1430

Mercury -56597-12-29 19:11 J -18950267.84 -18950267.70 -18950267.55 0.2660 0.0468

Mercury -56593-07-05 20:37 J -18948983.75 -18948983.64 -18948983.52 0.2674 0.0320

Mercury -56586-06-29 17:45 J -18946433.80 -18946433.76 -18946433.72 0.2668 0.2459

Mercury -56583-01-01 23:59 J -18945516.63 -18945516.50 -18945516.36 0.2658 0.1278

Mercury -56580-07-08 15:06 J -18944232.97 -18944232.87 -18944232.77 0.2676 0.1266

Mercury -56573-07-01 12:28 J -18941683.07 -18941682.98 -18941682.88 0.2670 0.1463

Mercury -56567-07-11 09:21 J -18939482.17 -18939482.11 -18939482.04 0.2678 0.2216

Mercury -56564-12-27 21:06 J -18938216.73 -18938216.62 -18938216.51 0.2662 0.1847

Mercury -56560-07-04 07:11 J -18936932.31 -18936932.20 -18936932.09 0.2673 0.0480

Mercury -56551-12-31 01:25 J -18933465.59 -18933465.44 -18933465.29 0.2660 0.0173

Mercury -56547-07-07 01:40 J -18932181.54 -18932181.43 -18932181.32 0.2674 0.0492

Mercury -56540-06-29 22:47 J -18929631.61 -18929631.55 -18929631.49 0.2669 0.2266

Mercury -56537-01-03 06:28 J -18928714.35 -18928714.23 -18928714.11 0.2657 0.1594

Mercury -56534-07-09 20:09 J -18927430.76 -18927430.66 -18927430.57 0.2676 0.1451

Mercury -56527-07-02 17:30 J -18924880.87 -18924880.77 -18924880.67 0.2671 0.1272

Mercury -56521-07-11 14:23 J -18922679.95 -18922679.90 -18922679.85 0.2678 0.2388

Mercury -56518-12-29 03:21 J -18921414.48 -18921414.36 -18921414.24 0.2662 0.1547

Mercury -56514-07-05 11:59 J -18920130.11 -18920130.00 -18920129.88 0.2673 0.0302

Mercury -56505-12-31 07:54 J -18916663.32 -18916663.17 -18916663.02 0.2659 0.0165

Mercury -56501-07-07 06:28 J -18915379.34 -18915379.23 -18915379.12 0.2675 0.0680

Mercury -56494-07-01 03:49 J -18912829.41 -18912829.34 -18912829.27 0.2669 0.2077

Mercury -56491-01-03 12:42 J -18911912.07 -18911911.97 -18911911.86 0.2657 0.1912

Mercury -56488-07-10 00:57 J -18910628.55 -18910628.46 -18910628.37 0.2677 0.1628

Venus -56487-09-26 14:23 J -18910185.05 -18910184.90 -18910184.76 0.2714 0.0931

Mercury -56481-07-02 22:18 J -18908078.67 -18908078.57 -18908078.46 0.2671 0.1088

Mercury -56475-07-12 19:11 J -18905877.73 -18905877.70 -18905877.67 0.2679 0.2568

Mercury -56472-12-29 09:35 J -18904612.23 -18904612.10 -18904611.97 0.2661 0.1237

Mercury -56468-07-05 17:01 J -18903327.90 -18903327.79 -18903327.68 0.2673 0.0107

Mercury -56458-01-01 14:09 J -18899861.06 -18899860.91 -18899860.76 0.2659 0.0469

Mercury -56455-07-08 11:30 J -18898577.13 -18898577.02 -18898576.91 0.2675 0.0858

Mercury -56448-07-01 08:37 J -18896027.22 -18896027.14 -18896027.06 0.2669 0.1883

Mercury -56445-01-04 19:11 J -18895109.78 -18895109.70 -18895109.62 0.2657 0.2229

Mercury -56442-07-11 05:45 J -18893826.34 -18893826.26 -18893826.17 0.2677 0.1808

Mercury -56439-12-27 11:45 J -18892561.04 -18892561.01 -18892560.98 0.2663 0.2589

Mercury -56435-07-04 03:21 J -18891276.47 -18891276.36 -18891276.25 0.2671 0.0897

Mercury -56426-12-30 15:49 J -18887809.98 -18887809.84 -18887809.70 0.2661 0.0929

Mercury -56422-07-06 22:04 J -18886525.70 -18886525.58 -18886525.47 0.2673 0.0135

Mercury -56412-01-01 20:23 J -18883058.79 -18883058.65 -18883058.50 0.2659 0.0790

Mercury -56409-07-08 16:18 J -18881774.92 -18881774.82 -18881774.71 0.2675 0.1042

Mercury -56402-07-02 13:40 J -18879225.02 -18879224.93 -18879224.84 0.2670 0.1697

Mercury -56399-01-05 01:25 J -18878307.48 -18878307.44 -18878307.40 0.2656 0.2544

Mercury -56396-07-11 10:47 J -18877024.12 -18877024.05 -18877023.98 0.2677 0.1985

Mercury -56393-12-27 17:59 J -18875758.83 -18875758.75 -18875758.68 0.2663 0.2288

Mercury -56389-07-04 08:23 J -18874474.26 -18874474.15 -18874474.04 0.2672 0.0712

Mercury -56380-12-30 22:04 J -18871007.72 -18871007.58 -18871007.43 0.2661 0.0620

Mercury -56376-07-07 02:52 J -18869723.49 -18869723.38 -18869723.27 0.2674 0.0263

Mercury -56369-06-29 23:45 J -18867173.54 -18867173.51 -18867173.47 0.2668 0.2504

Mercury -56366-01-03 02:52 J -18866256.52 -18866256.38 -18866256.24 0.2658 0.1102

Mercury -56363-07-09 21:21 J -18864972.71 -18864972.61 -18864972.51 0.2676 0.1221

Venus -56357-03-27 10:18 J -18862885.20 -18862885.07 -18862884.94 0.2619 0.1553

Mercury -56356-07-02 18:28 J -18862422.82 -18862422.73 -18862422.63 0.2670 0.1509

Mercury -56350-07-12 15:35 J -18860221.91 -18860221.85 -18860221.78 0.2678 0.2164

Mercury -56347-12-28 23:59 J -18858956.59 -18858956.50 -18858956.40 0.2663 0.1991

Mercury -56343-07-05 13:11 J -18857672.06 -18857671.95 -18857671.84 0.2672 0.0527

Mercury -56333-01-01 04:33 J -18854205.46 -18854205.31 -18854205.17 0.2660 0.0322

Mercury -56330-07-08 07:40 J -18852921.29 -18852921.18 -18852921.06 0.2674 0.0457

Mercury -56323-07-01 04:47 J -18850371.36 -18850371.30 -18850371.25 0.2668 0.2309

Mercury -56320-01-03 09:06 J -18849454.24 -18849454.12 -18849453.99 0.2658 0.1421

Mercury -56317-07-10 02:09 J -18848170.50 -18848170.41 -18848170.31 0.2676 0.1402

Mercury -56310-07-03 23:30 J -18845620.62 -18845620.52 -18845620.42 0.2670 0.1319

Mercury -56304-07-12 20:37 J -18843419.69 -18843419.64 -18843419.59 0.2678 0.2341

Mercury -56301-12-29 06:13 J -18842154.35 -18842154.24 -18842154.12 0.2662 0.1687

Mercury -56297-07-05 18:13 J -18840869.85 -18840869.74 -18840869.63 0.2672 0.0341

Mercury -56287-01-01 10:47 J -18837403.20 -18837403.05 -18837402.90 0.2660 0.0077

Mercury -56284-07-08 12:42 J -18836119.08 -18836118.97 -18836118.86 0.2674 0.0627

Mercury -56277-07-01 09:49 J -18833569.16 -18833569.09 -18833569.02 0.2669 0.2118

Mercury -56274-01-04 15:21 J -18832651.97 -18832651.86 -18832651.74 0.2658 0.1731

Mercury -56271-07-11 07:11 J -18831368.29 -18831368.20 -18831368.11 0.2676 0.1580

Mercury -56264-07-04 04:33 J -18828818.41 -18828818.31 -18828818.21 0.2671 0.1128

Mercury -56258-07-14 01:25 J -18826617.47 -18826617.44 -18826617.40 0.2678 0.2514

Mercury -56255-12-30 12:28 J -18825352.10 -18825351.98 -18825351.85 0.2662 0.1384

Mercury -56251-07-06 23:01 J -18824067.65 -18824067.54 -18824067.42 0.2673 0.0178

Venus -56244-09-26 17:59 J -18821428.89 -18821428.75 -18821428.60 0.2714 0.0841

Mercury -56241-01-02 17:01 J -18820600.94 -18820600.79 -18820600.64 0.2660 0.0307

Mercury -56238-07-09 17:30 J -18819316.87 -18819316.77 -18819316.66 0.2675 0.0816

Mercury -56231-07-02 14:37 J -18816766.96 -18816766.89 -18816766.81 0.2669 0.1930

Mercury -56228-01-04 21:49 J -18815849.69 -18815849.59 -18815849.50 0.2657 0.2044

Mercury -56225-07-11 11:59 J -18814566.08 -18814566.00 -18814565.91 0.2677 0.1757

Mercury -56218-07-05 09:21 J -18812016.21 -18812016.11 -18812016.00 0.2671 0.0948

Mercury -56209-12-30 18:42 J -18808549.85 -18808549.72 -18808549.58 0.2662 0.1081

Mercury -56205-07-07 04:04 J -18807265.44 -18807265.33 -18807265.22 0.2673 0.0033

Mercury -56195-01-02 23:16 J -18803798.68 -18803798.53 -18803798.38 0.2659 0.0616

Mercury -56192-07-09 22:33 J -18802514.66 -18802514.56 -18802514.45 0.2675 0.0989

Mercury -56185-07-02 19:40 J -18799964.76 -18799964.68 -18799964.59 0.2669 0.1738

Mercury -56182-01-06 04:18 J -18799047.39 -18799047.32 -18799047.26 0.2657 0.2362

Mercury -56179-07-12 17:01 J -18797763.87 -18797763.79 -18797763.72 0.2677 0.1936

Mercury -56176-12-28 20:52 J -18796498.69 -18796498.63 -18796498.57 0.2664 0.2429

Mercury -56172-07-05 14:23 J -18795214.01 -18795213.90 -18795213.79 0.2671 0.0755

Mercury -56162-01-01 00:57 J -18791747.60 -18791747.46 -18791747.31 0.2661 0.0780

Mercury -56159-07-08 08:52 J -18790463.24 -18790463.13 -18790463.01 0.2673 0.0239

Mercury -56152-07-01 05:45 J -18787913.29 -18787913.26 -18787913.22 0.2667 0.2544

Mercury -56149-01-04 05:30 J -18786996.41 -18786996.27 -18786996.13 0.2659 0.0927

Mercury -56146-07-11 03:35 J -18785712.46 -18785712.35 -18785712.25 0.2675 0.1175

Mercury -56139-07-04 00:42 J -18783162.56 -18783162.47 -18783162.38 0.2669 0.1551

Mercury -56133-07-12 21:49 J -18780961.65 -18780961.59 -18780961.52 0.2677 0.2113

Mercury -56130-12-30 03:06 J -18779696.46 -18779696.37 -18779696.28 0.2663 0.2126

Mercury -56126-07-06 19:25 J -18778411.80 -18778411.69 -18778411.58 0.2671 0.0574

Mercury -56116-01-01 07:11 J -18774945.34 -18774945.20 -18774945.05 0.2661 0.0477

Venus -56114-03-28 08:09 J -18774129.28 -18774129.16 -18774129.03 0.2619 0.1728

Mercury -56113-07-08 13:54 J -18773661.03 -18773660.92 -18773660.81 0.2674 0.0399

Mercury -56106-07-02 10:47 J -18771111.10 -18771111.05 -18771111.00 0.2668 0.2353

Mercury -56103-01-04 11:45 J -18770194.14 -18770194.01 -18770193.87 0.2659 0.1236

Mercury -56100-07-11 08:23 J -18768910.25 -18768910.15 -18768910.05 0.2676 0.1351

Mercury -56093-07-04 05:45 J -18766360.36 -18766360.26 -18766360.17 0.2670 0.1364

Mercury -56087-07-14 02:52 J -18764159.44 -18764159.38 -18764159.33 0.2678 0.2289

Mercury -56084-12-30 09:21 J -18762894.22 -18762894.11 -18762894.00 0.2663 0.1824

Mercury -56080-07-07 00:13 J -18761609.60 -18761609.49 -18761609.37 0.2672 0.0389

Mercury -56070-01-02 13:40 J -18758143.08 -18758142.93 -18758142.78 0.2661 0.0164

Mercury -56067-07-09 18:57 J -18756858.82 -18756858.71 -18756858.60 0.2674 0.0585

Mercury -56060-07-02 15:49 J -18754308.91 -18754308.84 -18754308.78 0.2668 0.2162

Mercury -56057-01-05 18:13 J -18753391.86 -18753391.74 -18753391.62 0.2658 0.1552

Mercury -56054-07-12 13:25 J -18752108.04 -18752107.94 -18752107.85 0.2676 0.1531

Mercury -56047-07-05 10:33 J -18749558.16 -18749558.06 -18749557.96 0.2670 0.1177

Mercury -56041-07-14 07:40 J -18747357.22 -18747357.18 -18747357.14 0.2678 0.2463

Mercury -56038-12-31 15:35 J -18746091.97 -18746091.85 -18746091.73 0.2662 0.1529

Mercury -56034-07-08 05:16 J -18744807.39 -18744807.28 -18744807.17 0.2672 0.0199

Mercury -56024-01-02 19:54 J -18741340.82 -18741340.67 -18741340.52 0.2660 0.0149

Mercury -56021-07-09 23:45 J -18740056.62 -18740056.51 -18740056.40 0.2674 0.0763

Mercury -56014-07-03 20:52 J -18737506.71 -18737506.63 -18737506.56 0.2669 0.1976

Mercury -56011-01-06 00:42 J -18736589.58 -18736589.47 -18736589.37 0.2658 0.1867

Mercury -56008-07-12 18:13 J -18735305.83 -18735305.74 -18735305.65 0.2676 0.1707

Mercury -56001-07-05 15:35 J -18732755.96 -18732755.85 -18732755.75 0.2670 0.0988

Venus -56001-09-26 21:35 J -18732672.74 -18732672.60 -18732672.45 0.2713 0.0773

56TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 56th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-55995-07-15 12:28 J	-18730554.99	-18730554.98	-18730554.96	0.2678	0.2638		
Mercury	-55992-12-31 21:49 J	-18729289.72	-18729289.59	-18729289.46	0.2662	0.1232		
Mercury	-55988-07-08 10:04 J	-18728005.19	-18728005.08	-18728004.96	0.2672	0.0098		
Mercury	-55978-01-04 02:09 J	-18724538.56	-18724538.41	-18724538.26	0.2660	0.0450		
Mercury	-55975-07-11 04:47 J	-18723254.41	-18723254.30	-18723254.20	0.2674	0.0943		
Mercury	-55968-07-04 01:40 J	-18720704.51	-18720704.43	-18720704.34	0.2669	0.1785		
Mercury	-55965-01-07 06:57 J	-18719787.30	-18719787.21	-18719787.13	0.2658	0.2178		
Mercury	-55962-07-13 23:16 J	-18718503.61	-18718503.53	-18718503.46	0.2676	0.1887		
Mercury	-55959-12-29 23:59 J	-18717238.54	-18717238.50	-18717238.46	0.2664	0.2559		
Mercury	-55955-07-06 20:23 J	-18715953.76	-18715953.65	-18715953.54	0.2671	0.0808		
Mercury	-55945-01-02 04:04 J	-18712487.47	-18712487.33	-18712487.19	0.2662	0.0930		
Mercury	-55942-07-09 15:06 J	-18711202.98	-18711202.87	-18711202.76	0.2673	0.0168		
Mercury	-55935-07-02 11:45 J	-18708653.03	-18708653.01	-18708652.98	0.2667	0.2591		

Mercury -55932-01-04 08:23 J -18707736.29 -18707736.15 -18707736.01 0.2660 0.0755

Mercury -55929-07-11 09:35 J -18706452.20 -18706452.10 -18706452.00 0.2675 0.1121

Mercury -55922-07-05 06:42 J -18703902.31 -18703902.22 -18703902.13 0.2669 0.1593

Mercury -55919-01-07 13:11 J -18702985.00 -18702984.95 -18702984.90 0.2657 0.2488

Mercury -55916-07-14 04:04 J -18701701.40 -18701701.33 -18701701.26 0.2677 0.2058

Mercury -55913-12-30 06:13 J -18700436.32 -18700436.24 -18700436.17 0.2664 0.2267

Mercury -55909-07-07 01:25 J -18699151.55 -18699151.44 -18699151.33 0.2671 0.0615

Mercury -55899-01-02 10:18 J -18695685.22 -18695685.07 -18695684.93 0.2661 0.0626

Mercury -55896-07-09 20:09 J -18694400.78 -18694400.66 -18694400.55 0.2673 0.0357

Mercury -55889-07-02 16:47 J -18691850.85 -18691850.80 -18691850.75 0.2667 0.2396

Mercury -55886-01-05 14:37 J -18690934.02 -18690933.89 -18690933.75 0.2659 0.1068

Mercury -55883-07-12 14:37 J -18689649.99 -18689649.89 -18689649.79 0.2675 0.1300

Venus -55879-03-30 17:59 J -18688292.79 -18688292.75 -18688292.70 0.2620 0.2507

Mercury -55876-07-05 11:45 J -18687100.11 -18687100.01 -18687099.92 0.2669 0.1409

Venus -55871-03-28 06:13 J -18685373.35 -18685373.24 -18685373.12 0.2620 0.1857

Mercury -55870-07-15 08:52 J -18684899.19 -18684899.13 -18684899.07 0.2677 0.2235

Mercury -55867-12-31 12:28 J -18683634.08 -18683633.98 -18683633.89 0.2663 0.1972

Mercury -55863-07-08 06:28 J -18682349.34 -18682349.23 -18682349.12 0.2671 0.0432

Mercury -55853-01-03 16:33 J -18678882.96 -18678882.81 -18678882.67 0.2661 0.0331

Mercury -55850-07-11 00:57 J -18677598.57 -18677598.46 -18677598.35 0.2673 0.0537

Mercury -55843-07-03 21:49 J -18675048.65 -18675048.59 -18675048.53 0.2668 0.2209

Mercury -55840-01-05 21:06 J -18674131.75 -18674131.62 -18674131.49 0.2659 0.1375

Mercury -55837-07-12 19:25 J -18672847.78 -18672847.69 -18672847.59 0.2675 0.1477

Mercury -55830-07-06 16:33 J -18670297.91 -18670297.81 -18670297.70 0.2670 0.1223

Mercury -55824-07-15 13:54 J -18668096.97 -18668096.92 -18668096.88 0.2677 0.2409

Mercury -55821-12-31 18:28 J -18666831.84 -18666831.73 -18666831.61 0.2663 0.1674

Mercury -55817-07-08 11:16 J -18665547.14 -18665547.03 -18665546.91 0.2672 0.0263

Mercury -55807-01-03 22:47 J -18662080.70 -18662080.55 -18662080.40 0.2661 0.0021

Mercury -55804-07-11 05:59 J -18660796.36 -18660796.25 -18660796.14 0.2674 0.0712

Mercury -55797-07-04 02:52 J -18658246.46 -18658246.38 -18658246.31 0.2668 0.2017

Mercury -55794-01-07 03:21 J -18657329.48 -18657329.36 -18657329.24 0.2658 0.1681

Mercury -55791-07-14 00:28 J -18656045.57 -18656045.48 -18656045.39 0.2676 0.1658

Mercury -55784-07-06 21:35 J -18653495.70 -18653495.60 -18653495.49 0.2670 0.1036

Mercury -55778-07-16 18:42 J -18651294.74 -18651294.72 -18651294.69 0.2678 0.2584

Mercury -55774-01-02 00:57 J -18650029.59 -18650029.46 -18650029.34 0.2663 0.1375

Mercury -55771-07-09 16:18 J -18648744.93 -18648744.82 -18648744.71 0.2672 0.0065

Mercury -55761-01-05 05:01 J -18645278.44 -18645278.29 -18645278.14 0.2660 0.0286

Mercury -55758-07-12 10:47 J -18643994.15 -18643994.05 -18643993.94 0.2674 0.0896

Venus -55758-09-28 01:40 J -18643916.58 -18643916.43 -18643916.29 0.2713 0.0660

Mercury -55751-07-05 07:54 J -18641444.26 -18641444.17 -18641444.09 0.2668 0.1831

Mercury -55748-01-07 09:35 J -18640527.19 -18640527.10 -18640527.00 0.2658 0.1992

Mercury -55745-07-14 05:16 J -18639243.36 -18639243.28 -18639243.20 0.2676 0.1831

Mercury -55738-07-08 02:37 J -18636693.50 -18636693.39 -18636693.28 0.2670 0.0847

Mercury -55728-01-02 06:57 J -18633227.34 -18633227.21 -18633227.07 0.2662 0.1075

Mercury -55725-07-09 21:21 J -18631942.73 -18631942.61 -18631942.50 0.2672 0.0154

Mercury -55718-07-03 17:45 J -18629392.77 -18629392.76 -18629392.74 0.2667 0.2635

Mercury -55715-01-05 11:16 J -18628476.17 -18628476.03 -18628475.88 0.2660 0.0598

Mercury -55712-07-12 15:49 J -18627191.95 -18627191.84 -18627191.74 0.2674 0.1069

Mercury -55705-07-05 12:42 J -18624642.06 -18624641.97 -18624641.88 0.2669 0.1642

Mercury -55702-01-08 16:04 J -18623724.90 -18623724.83 -18623724.76 0.2658 0.2304

Mercury -55699-07-15 10:18 J -18622441.15 -18622441.07 -18622441.00 0.2676 0.2008

Mercury -55696-12-31 09:21 J -18621176.17 -18621176.11 -18621176.05 0.2664 0.2398

Mercury -55692-07-08 07:25 J -18619891.30 -18619891.19 -18619891.07 0.2671 0.0674

Mercury -55682-01-03 13:11 J -18616425.09 -18616424.95 -18616424.81 0.2662 0.0781

Mercury -55679-07-11 02:09 J -18615140.52 -18615140.41 -18615140.29 0.2673 0.0305

Mercury -55672-07-03 22:47 J -18612590.59 -18612590.55 -18612590.50 0.2667 0.2444

Mercury -55669-01-06 17:45 J -18611673.91 -18611673.76 -18611673.62 0.2660 0.0901

Mercury -55666-07-13 20:37 J -18610389.74 -18610389.64 -18610389.54 0.2675 0.1250

Mercury -55659-07-06 17:45 J -18607839.86 -18607839.76 -18607839.66 0.2669 0.1454

Mercury -55656-01-08 22:18 J -18606922.59 -18606922.57 -18606922.54 0.2657 0.2617

Mercury -55653-07-15 15:06 J -18605638.93 -18605638.87 -18605638.81 0.2676 0.2181

Mercury -55649-01-01 15:21 J -18604373.94 -18604373.86 -18604373.77 0.2664 0.2110

Mercury -55646-07-09 12:28 J -18603089.09 -18603088.98 -18603088.87 0.2671 0.0480

Mercury -55636-01-03 19:25 J -18599622.83 -18599622.69 -18599622.54 0.2662 0.0481

Venus -55636-03-30 16:04 J -18599536.90 -18599536.83 -18599536.75 0.2620 0.2351

Mercury -55633-07-11 07:11 J -18598338.32 -18598338.20 -18598338.09 0.2673 0.0483

Venus -55628-03-28 04:18 J -18596617.42 -18596617.32 -18596617.21 0.2620 0.2008

Mercury -55626-07-05 03:49 J -18595788.40 -18595788.34 -18595788.28 0.2667 0.2251

Mercury -55623-01-06 23:59 J -18594871.64 -18594871.50 -18594871.37 0.2659 0.1199

Mercury -55620-07-14 01:40 J -18593587.53 -18593587.43 -18593587.34 0.2675 0.1427

Mercury -55613-07-06 22:47 J -18591037.65 -18591037.55 -18591037.45 0.2669 0.1268

Mercury -55607-07-16 20:09 J -18588836.71 -18588836.66 -18588836.61 0.2677 0.2358

Mercury -55603-01-01 21:35 J -18587571.70 -18587571.60 -18587571.49 0.2664 0.1814

Mercury -55600-07-09 17:30 J -18586286.89 -18586286.77 -18586286.66 0.2671 0.0303

Mercury -55590-01-05 01:40 J -18582820.58 -18582820.43 -18582820.28 0.2661 0.0186

Mercury -55587-07-12 11:59 J -18581536.11 -18581536.00 -18581535.89 0.2673 0.0665

Mercury -55580-07-05 08:52 J -18578986.20 -18578986.13 -18578986.06 0.2668 0.2061

Mercury -55577-01-08 06:13 J -18578069.36 -18578069.24 -18578069.12 0.2659 0.1504

Mercury -55574-07-15 06:28 J -18576785.32 -18576785.23 -18576785.14 0.2675 0.1604

Mercury -55567-07-08 03:49 J -18574235.45 -18574235.34 -18574235.24 0.2670 0.1084

Mercury -55561-07-17 00:57 J -18572034.49 -18572034.46 -18572034.43 0.2677 0.2528

Mercury -55557-01-03 03:49 J -18570769.46 -18570769.34 -18570769.22 0.2663 0.1519

Mercury -55554-07-10 22:18 J -18569484.68 -18569484.57 -18569484.45 0.2672 0.0142

Mercury -55544-01-05 07:54 J -18566018.32 -18566018.17 -18566018.02 0.2661 0.0142

Mercury -55541-07-12 17:01 J -18564733.90 -18564733.79 -18564733.68 0.2674 0.0839

Mercury -55534-07-06 13:54 J -18562184.00 -18562183.92 -18562183.84 0.2668 0.1876

Mercury -55531-01-08 12:28 J -18561267.09 -18561266.98 -18561266.87 0.2659 0.1809

Mercury -55528-07-15 11:30 J -18559983.10 -18559983.02 -18559982.94 0.2676 0.1779

Mercury -55521-07-08 08:37 J -18557433.25 -18557433.14 -18557433.03 0.2670 0.0897

Venus -55515-09-28 05:16 J -18555160.42 -18555160.28 -18555160.13 0.2713 0.0565

Mercury -55511-01-03 10:04 J -18553967.21 -18553967.08 -18553966.95 0.2663 0.1226

Mercury -55508-07-11 03:21 J -18552682.47 -18552682.36 -18552682.24 0.2672 0.0075

Mercury -55498-01-06 14:09 J -18549216.05 -18549215.91 -18549215.76 0.2661 0.0425

Mercury -55495-07-13 21:49 J -18547931.69 -18547931.59 -18547931.48 0.2674 0.1027

Mercury -55488-07-06 18:42 J -18545381.80 -18545381.72 -18545381.63 0.2668 0.1692

Mercury -55485-01-09 18:42 J -18544464.80 -18544464.72 -18544464.63 0.2658 0.2118

Mercury -55482-07-16 16:18 J -18543180.89 -18543180.82 -18543180.74 0.2676 0.1956

Mercury -55478-01-01 12:28 J -18541916.02 -18541915.98 -18541915.94 0.2665 0.2531

Mercury -55475-07-09 13:40 J -18540631.04 -18540630.93 -18540630.82 0.2670 0.0712

Mercury -55465-01-04 16:18 J -18537164.96 -18537164.82 -18537164.68 0.2663 0.0926

Mercury -55462-07-12 08:23 J -18535880.27 -18535880.15 -18535880.04 0.2672 0.0264

Mercury -55455-07-05 04:47 J -18533330.33 -18533330.30 -18533330.26 0.2666 0.2490

Mercury -55452-01-06 20:37 J -18532413.79 -18532413.64 -18532413.50 0.2660 0.0726

Mercury -55449-07-14 02:52 J -18531129.48 -18531129.38 -18531129.28 0.2674 0.1197

Mercury -55442-07-07 23:45 J -18528579.60 -18528579.51 -18528579.41 0.2668 0.1501

Mercury -55439-01-10 01:11 J -18527662.51 -18527662.45 -18527662.39 0.2658 0.2421

Mercury -55436-07-16 21:21 J -18526378.68 -18526378.61 -18526378.54 0.2676 0.2131

Mercury -55432-01-01 18:42 J -18525113.80 -18525113.72 -18525113.64 0.2664 0.2238

Mercury -55429-07-09 18:28 J -18523828.84 -18523828.73 -18523828.61 0.2670 0.0539

Mercury -55419-01-04 22:33 J -18520362.70 -18520362.56 -18520362.42 0.2662 0.0632

Mercury -55416-07-12 13:11 J -18519078.06 -18519077.95 -18519077.83 0.2672 0.0434

Mercury -55409-07-05 09:49 J -18516528.14 -18516528.09 -18516528.03 0.2667 0.2300

Mercury -55406-01-08 02:52 J -18515611.52 -18515611.38 -18515611.25 0.2660 0.1028

Mercury -55403-07-15 07:54 J -18514327.27 -18514327.17 -18514327.08 0.2674 0.1377

Mercury -55396-07-08 04:47 J -18511777.40 -18511777.30 -18511777.20 0.2669 0.1315

Venus -55393-03-30 14:09 J -18510780.99 -18510780.91 -18510780.82 0.2620 0.2212

Mercury -55390-07-18 02:09 J -18509576.46 -18509576.41 -18509576.35 0.2676 0.2304

Mercury -55386-01-03 00:42 J -18508311.56 -18508311.47 -18508311.37 0.2664 0.1953

Venus -55385-03-28 02:09 J -18507861.50 -18507861.41 -18507861.31 0.2620 0.2169

Mercury -55383-07-10 23:30 J -18507026.63 -18507026.52 -18507026.41 0.2671 0.0345

Mercury -55373-01-06 04:47 J -18503560.45 -18503560.30 -18503560.15 0.2662 0.0333

Mercury -55370-07-13 18:13 J -18502275.85 -18502275.74 -18502275.63 0.2673 0.0610

Mercury -55363-07-06 14:52 J -18499725.95 -18499725.88 -18499725.81 0.2667 0.2111

Mercury -55360-01-08 09:06 J -18498809.25 -18498809.12 -18498808.99 0.2659 0.1330

Mercury -55357-07-15 12:42 J -18497525.06 -18497524.97 -18497524.88 0.2675 0.1549

Mercury -55350-07-09 09:49 J -18494975.20 -18494975.09 -18494974.99 0.2669 0.1135

Mercury -55344-07-18 07:11 J -18492774.24 -18492774.20 -18492774.16 0.2677 0.2476

Mercury -55340-01-03 06:57 J -18491509.32 -18491509.21 -18491509.09 0.2664 0.1661

Mercury -55337-07-11 04:33 J -18490224.43 -18490224.31 -18490224.20 0.2671 0.0168

Mercury -55327-01-06 11:01 J -18486758.19 -18486758.04 -18486757.89 0.2661 0.0062

Mercury -55324-07-13 23:16 J -18485473.64 -18485473.53 -18485473.43 0.2673 0.0797

Mercury -55317-07-06 19:54 J -18482923.75 -18482923.67 -18482923.59 0.2668 0.1923

Mercury -55314-01-09 15:21 J -18482006.98 -18482006.86 -18482006.74 0.2659 0.1635

Mercury -55311-07-16 17:45 J -18480722.85 -18480722.76 -18480722.68 0.2675 0.1728

Mercury -55304-07-09 14:37 J -18478172.99 -18478172.89 -18478172.78 0.2669 0.0949

Mercury -55298-07-19 11:59 J -18475972.01 -18475972.00 -18475971.98 0.2677 0.2646

Mercury -55294-01-04 13:11 J -18474707.08 -18474706.95 -18474706.83 0.2663 0.1373

Mercury -55291-07-12 09:21 J -18473422.22 -18473422.11 -18473421.99 0.2671 0.0093

Mercury -55281-01-07 17:16 J -18469955.93 -18469955.78 -18469955.63 0.2661 0.0260

Mercury -55278-07-15 04:04 J -18468671.44 -18468671.33 -18468671.22 0.2673 0.0965

Venus -55272-09-28 09:21 J -18466404.26 -18466404.11 -18466403.96 0.2712 0.0450

Mercury -55271-07-08 00:57 J -18466121.55 -18466121.46 -18466121.38 0.2668 0.1737

Mercury -55268-01-09 21:35 J -18465204.70 -18465204.60 -18465204.49 0.2659 0.1935

Mercury -55265-07-16 22:33 J -18463920.64 -18463920.56 -18463920.48 0.2675 0.1902

Mercury -55261-01-02 15:35 J -18462655.85 -18462655.85 -18462655.84 0.2665 0.2661

Mercury -55258-07-10 19:40 J -18461370.79 -18461370.68 -18461370.57 0.2670 0.0761

Mercury -55248-01-04 19:25 J -18457904.83 -18457904.69 -18457904.56 0.2663 0.1083

Mercury -55245-07-12 14:23 J -18456620.01 -18456619.90 -18456619.78 0.2672 0.0201

Mercury -55238-07-06 10:47 J -18454070.08 -18454070.05 -18454070.01 0.2666 0.2537

Mercury -55235-01-07 23:30 J -18453153.67 -18453153.52 -18453153.38 0.2661 0.0555

Mercury -55232-07-15 09:06 J -18451869.23 -18451869.12 -18451869.02 0.2674 0.1148

Mercury -55225-07-08 05:45 J -18449319.35 -18449319.26 -18449319.16 0.2668 0.1551

Mercury -55222-01-11 04:04 J -18448402.41 -18448402.33 -18448402.25 0.2659 0.2240

Mercury -55219-07-18 03:35 J -18447118.42 -18447118.35 -18447118.28 0.2676 0.2073

Mercury -55215-01-02 21:49 J -18445853.65 -18445853.59 -18445853.53 0.2665 0.2376

Mercury -55212-07-11 00:42 J -18444568.58 -18444568.47 -18444568.36 0.2670 0.0578

Mercury -55202-01-06 01:40 J -18441102.58 -18441102.43 -18441102.29 0.2663 0.0789

Mercury -55199-07-13 19:25 J -18439817.81 -18439817.69 -18439817.58 0.2672 0.0383

Mercury -55192-07-06 15:49 J -18437267.89 -18437267.84 -18437267.79 0.2666 0.2347

Mercury -55189-01-09 05:45 J -18436351.40 -18436351.26 -18436351.12 0.2660 0.0855

Mercury -55186-07-16 13:54 J -18435067.02 -18435066.92 -18435066.82 0.2674 0.1320

Mercury -55179-07-09 10:47 J -18432517.15 -18432517.05 -18432516.95 0.2668 0.1365

Mercury -55176-01-11 10:18 J -18431600.11 -18431600.07 -18431600.03 0.2658 0.2539

Mercury -55173-07-18 08:23 J -18430316.21 -18430316.15 -18430316.09 0.2676 0.2248

Mercury -55169-01-04 04:04 J -18429051.42 -18429051.33 -18429051.24 0.2665 0.2085

Mercury -55166-07-12 05:45 J -18427766.38 -18427766.26 -18427766.15 0.2670 0.0407

Mercury -55156-01-06 07:40 J -18424300.32 -18424300.18 -18424300.03 0.2662 0.0501

Mercury -55153-07-14 00:28 J -18423015.60 -18423015.48 -18423015.37 0.2672 0.0570

Venus -55150-03-31 12:13 J -18422025.09 -18422024.99 -18422024.89 0.2621 0.2058

Mercury -55146-07-07 20:52 J -18420465.70 -18420465.63 -18420465.56 0.2667 0.2160

Mercury -55143-01-09 11:59 J -18419549.13 -18419549.00 -18419548.86 0.2660 0.1155

Venus -55142-03-29 00:28 J -18419105.56 -18419105.48 -18419105.41 0.2621 0.2293

Mercury -55140-07-16 18:57 J -18418264.81 -18418264.71 -18418264.62 0.2674 0.1499

Mercury -55133-07-09 15:49 J -18415714.94 -18415714.84 -18415714.74 0.2669 0.1180

Mercury -55127-07-19 13:25 J -18413513.99 -18413513.94 -18413513.90 0.2676 0.2419

Mercury -55123-01-04 10:04 J -18412249.18 -18412249.08 -18412248.97 0.2664 0.1804

Mercury -55120-07-12 10:33 J -18410964.17 -18410964.06 -18410963.94 0.2671 0.0218

Mercury -55110-01-07 14:09 J -18407498.06 -18407497.91 -18407497.77 0.2662 0.0206

Mercury -55107-07-15 05:16 J -18406213.39 -18406213.28 -18406213.17 0.2673 0.0735

Mercury -55100-07-08 01:54 J -18403663.50 -18403663.42 -18403663.35 0.2667 0.1974

Mercury -55097-01-10 18:13 J -18402746.86 -18402746.74 -18402746.61 0.2660 0.1459

Mercury -55094-07-17 23:45 J -18401462.59 -18401462.51 -18401462.42 0.2675 0.1674

Mercury -55087-07-10 20:52 J -18398912.74 -18398912.63 -18398912.53 0.2669 0.1000

Mercury -55081-07-19 18:13 J -18396711.76 -18396711.74 -18396711.71 0.2676 0.2593

Mercury -55077-01-05 16:18 J -18395446.94 -18395446.82 -18395446.70 0.2664 0.1513

Mercury -55074-07-13 15:35 J -18394161.97 -18394161.85 -18394161.74 0.2671 0.0042

Mercury -55064-01-07 20:09 J -18390695.81 -18390695.66 -18390695.51 0.2662 0.0111

Mercury -55061-07-15 10:18 J -18389411.18 -18389411.07 -18389410.97 0.2673 0.0920

Mercury -55054-07-09 06:57 J -18386861.30 -18386861.21 -18386861.13 0.2667 0.1785

Mercury -55051-01-11 00:28 J -18385944.59 -18385944.48 -18385944.36 0.2659 0.1759

Mercury -55048-07-18 04:47 J -18384660.38 -18384660.30 -18384660.22 0.2675 0.1845

Mercury -55041-07-11 01:40 J -18382110.54 -18382110.43 -18382110.32 0.2669 0.0817

Mercury -55031-01-05 22:33 J -18378644.69 -18378644.56 -18378644.43 0.2664 0.1227

Venus -55029-09-28 13:11 J -18377648.10 -18377647.95 -18377647.80 0.2712 0.0331

Mercury -55028-07-13 20:37 J -18377359.76 -18377359.64 -18377359.53 0.2671 0.0184

Mercury -55021-07-06 16:47 J -18374809.82 -18374809.80 -18374809.77 0.2666 0.2584

Mercury -55018-01-09 02:23 J -18373893.54 -18373893.40 -18373893.25 0.2661 0.0401

Mercury -55015-07-16 15:06 J -18372608.97 -18372608.87 -18372608.77 0.2673 0.1088

Mercury -55008-07-09 11:45 J -18370059.10 -18370059.01 -18370058.91 0.2668 0.1603

Mercury -55005-01-12 06:57 J -18369142.31 -18369142.21 -18369142.12 0.2659 0.2055

Mercury -55002-07-19 09:35 J -18367858.17 -18367858.10 -18367858.02 0.2675 0.2019

55TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 55th millennium BCE.

PLANET	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
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TRANSIT

TIME

Mercury	-54998-01-04 00:57 J	-18366593.50	-18366593.46	-18366593.41	0.2665	0.2510
Mercury	-54995-07-12 06:42 J	-18365308.33	-18365308.22	-18365308.11	0.2670	0.0630
Mercury	-54985-01-07 04:33 J	-18361842.44	-18361842.31	-18361842.17	0.2663	0.0942
Mercury	-54982-07-15 01:25 J	-18360557.55	-18360557.44	-18360557.32	0.2672	0.0329
Mercury	-54975-07-07 21:49 J	-18358007.64	-18358007.59	-18358007.54	0.2666	0.2397
Mercury	-54972-01-09 08:37 J	-18357091.28	-18357091.14	-18357090.99	0.2661	0.0687
Mercury	-54969-07-16 20:09 J	-18355806.76	-18355806.66	-18355806.56	0.2674	0.1268
Mercury	-54962-07-10 16:47 J	-18353256.89	-18353256.80	-18353256.70	0.2668	0.1415
Mercury	-54959-01-12 13:11 J	-18352340.02	-18352339.95	-18352339.88	0.2659	0.2358
Mercury	-54956-07-19 14:37 J	-18351055.95	-18351055.89	-18351055.83	0.2675	0.2190
Mercury	-54952-01-04 07:11 J	-18349791.28	-18349791.20	-18349791.12	0.2665	0.2231
Mercury	-54949-07-12 11:45 J	-18348506.13	-18348506.01	-18348505.90	0.2670	0.0449
Mercury	-54939-01-07 10:47 J	-18345040.19	-18345040.05	-18345039.90	0.2663	0.0651
Mercury	-54936-07-15 06:28 J	-18343755.35	-18343755.23	-18343755.12	0.2672	0.0508
Mercury	-54929-07-08 02:52 J	-18341205.44	-18341205.38	-18341205.32	0.2666	0.2208
Mercury	-54926-01-10 14:52 J	-18340289.01	-18340288.88	-18340288.74	0.2661	0.0986
Mercury	-54923-07-18 00:57 J	-18339004.55	-18339004.46	-18339004.36	0.2674	0.1441
Mercury	-54916-07-10 21:49 J	-18336454.69	-18336454.59	-18336454.49	0.2668	0.1230
Mercury	-54913-01-13 19:25 J	-18335537.69	-18335537.69	-18335537.68	0.2658	0.2653
Mercury	-54910-07-20 19:25 J	-18334253.74	-18334253.69	-18334253.64	0.2676	0.2364
Venus	-54907-03-31 10:04 J	-18333269.19	-18333269.08	-18333268.96	0.2621	0.1897
Mercury	-54906-01-05 13:25 J	-18332989.04	-18332988.94	-18332988.85	0.2665	0.1942
Mercury	-54903-07-13 16:47 J	-18331703.92	-18331703.80	-18331703.69	0.2670	0.0288
Venus	-54899-03-28 22:04 J	-18330349.63	-18330349.58	-18330349.53	0.2621	0.2480
Mercury	-54893-01-08 17:01 J	-18328237.94	-18328237.79	-18328237.64	0.2663	0.0360
Mercury	-54890-07-16 11:16 J	-18326953.14	-18326953.03	-18326952.92	0.2672	0.0688
Mercury	-54883-07-09 07:54 J	-18324403.25	-18324403.17	-18324403.10	0.2667	0.2021
Mercury	-54880-01-10 21:06 J	-18323486.75	-18323486.62	-18323486.49	0.2660	0.1274

Mercury -54877-07-18 05:59 J -18322202.34 -18322202.25 -18322202.16 0.2674 0.1616

Mercury -54870-07-12 02:52 J -18319652.49 -18319652.38 -18319652.28 0.2669 0.1046

Mercury -54864-07-21 00:28 J -18317451.51 -18317451.48 -18317451.45 0.2676 0.2530

Mercury -54860-01-05 19:25 J -18316186.80 -18316186.69 -18316186.57 0.2665 0.1656

Mercury -54857-07-13 21:35 J -18314901.71 -18314901.60 -18314901.48 0.2670 0.0095

Mercury -54847-01-08 23:16 J -18311435.68 -18311435.53 -18311435.38 0.2662 0.0073

Mercury -54844-07-16 16:18 J -18310150.93 -18310150.82 -18310150.71 0.2672 0.0859

Mercury -54837-07-09 12:57 J -18307601.05 -18307600.96 -18307600.88 0.2667 0.1838

Mercury -54834-01-12 03:21 J -18306684.48 -18306684.36 -18306684.24 0.2660 0.1575

Mercury -54831-07-19 10:47 J -18305400.13 -18305400.05 -18305399.96 0.2675 0.1791

Mercury -54824-07-12 07:54 J -18302850.28 -18302850.17 -18302850.07 0.2669 0.0872

Mercury -54814-01-07 01:40 J -18299384.55 -18299384.43 -18299384.30 0.2664 0.1368

Mercury -54811-07-15 02:37 J -18298099.51 -18298099.39 -18298099.28 0.2671 0.0098

Mercury -54804-07-07 22:47 J -18295549.56 -18295549.55 -18295549.54 0.2665 0.2637

Mercury -54801-01-10 05:30 J -18294633.42 -18294633.27 -18294633.12 0.2662 0.0227

Mercury -54798-07-17 21:21 J -18293348.72 -18293348.61 -18293348.51 0.2673 0.1037

Mercury -54791-07-10 17:45 J -18290798.84 -18290798.76 -18290798.66 0.2667 0.1656

Mercury -54788-01-12 09:49 J -18289882.20 -18289882.09 -18289881.99 0.2660 0.1874

Venus -54786-09-29 17:01 J -18288891.94 -18288891.79 -18288891.64 0.2712 0.0233

Mercury -54785-07-19 15:49 J -18288597.92 -18288597.84 -18288597.76 0.2675 0.1962

Mercury -54781-01-05 04:18 J -18287333.34 -18287333.32 -18287333.30 0.2666 0.2640

Mercury -54778-07-13 12:42 J -18286048.08 -18286047.97 -18286047.86 0.2669 0.0684

Mercury -54768-01-07 07:54 J -18282582.31 -18282582.17 -18282582.04 0.2664 0.1091

Mercury -54765-07-15 07:25 J -18281297.30 -18281297.19 -18281297.07 0.2671 0.0285

Mercury -54758-07-09 03:49 J -18278747.38 -18278747.34 -18278747.30 0.2666 0.2446

Mercury -54755-01-10 11:45 J -18277831.16 -18277831.01 -18277830.86 0.2661 0.0522

Mercury -54752-07-18 02:09 J -18276546.51 -18276546.41 -18276546.31 0.2673 0.1211

Mercury -54745-07-10 22:47 J -18273996.64 -18273996.55 -18273996.45 0.2668 0.1469

Mercury -54742-01-13 16:04 J -18273079.92 -18273079.83 -18273079.75 0.2659 0.2170

Mercury -54739-07-20 20:52 J -18271795.70 -18271795.63 -18271795.57 0.2675 0.2135

Mercury -54735-01-05 10:33 J -18270531.13 -18270531.06 -18270531.00 0.2666 0.2362

Mercury -54732-07-13 17:45 J -18269245.87 -18269245.76 -18269245.65 0.2669 0.0504

Mercury -54722-01-08 13:54 J -18265780.06 -18265779.92 -18265779.78 0.2663 0.0802

Mercury -54719-07-16 12:28 J -18264495.09 -18264494.98 -18264494.87 0.2671 0.0449

Mercury -54712-07-09 08:52 J -18261945.19 -18261945.13 -18261945.07 0.2666 0.2261

Mercury -54709-01-11 17:59 J -18261028.90 -18261028.75 -18261028.61 0.2661 0.0808

Mercury -54706-07-19 07:11 J -18259744.30 -18259744.20 -18259744.11 0.2673 0.1385

Mercury -54699-07-12 03:49 J -18257194.44 -18257194.34 -18257194.24 0.2668 0.1282

Mercury -54696-01-13 22:18 J -18256277.62 -18256277.57 -18256277.52 0.2659 0.2468

Mercury -54693-07-21 01:40 J -18254993.49 -18254993.43 -18254993.38 0.2675 0.2302

Mercury -54689-01-06 16:33 J -18253728.90 -18253728.81 -18253728.72 0.2665 0.2080

Mercury -54686-07-14 22:47 J -18252443.67 -18252443.55 -18252443.44 0.2670 0.0332

Mercury -54676-01-08 20:09 J -18248977.80 -18248977.66 -18248977.51 0.2663 0.0515

Mercury -54673-07-16 17:30 J -18247692.88 -18247692.77 -18247692.66 0.2672 0.0628

Mercury -54666-07-10 13:54 J -18245142.99 -18245142.92 -18245142.85 0.2666 0.2073

Venus -54664-03-31 07:54 J -18244513.29 -18244513.17 -18244513.05 0.2621 0.1736

Mercury -54663-01-12 00:13 J -18244226.63 -18244226.49 -18244226.36 0.2661 0.1104

Mercury -54660-07-19 11:59 J -18242942.09 -18242942.00 -18242941.90 0.2674 0.1558

Venus -54656-03-28 20:09 J -18241593.67 -18241593.66 -18241593.65 0.2622 0.2615

Mercury -54653-07-12 08:52 J -18240392.24 -18240392.13 -18240392.03 0.2668 0.1103

Mercury -54647-07-22 06:42 J -18238191.26 -18238191.22 -18238191.18 0.2676 0.2476

Mercury -54643-01-06 22:47 J -18236926.66 -18236926.55 -18236926.45 0.2665 0.1802

Mercury -54640-07-15 03:35 J -18235641.46 -18235641.35 -18235641.23 0.2670 0.0169

Mercury -54630-01-10 02:23 J -18232175.55 -18232175.40 -18232175.26 0.2663 0.0234

Mercury -54627-07-17 22:18 J -18230890.67 -18230890.57 -18230890.46 0.2672 0.0810

Mercury -54620-07-10 18:57 J -18228340.79 -18228340.71 -18228340.63 0.2667 0.1891

Mercury -54617-01-13 06:28 J -18227424.36 -18227424.23 -18227424.11 0.2660 0.1394

Mercury -54614-07-20 17:01 J -18226139.88 -18226139.79 -18226139.71 0.2674 0.1730

Mercury -54607-07-13 13:54 J -18223590.03 -18223589.92 -18223589.82 0.2668 0.0919

Mercury -54601-07-22 11:30 J -18221389.03 -18221389.02 -18221389.01 0.2676 0.2641

Mercury -54597-01-08 04:47 J -18220124.42 -18220124.30 -18220124.18 0.2665 0.1521

Mercury -54594-07-16 08:37 J -18218839.25 -18218839.14 -18218839.02 0.2670 0.0044

Mercury -54584-01-10 08:37 J -18215373.29 -18215373.14 -18215373.00 0.2662 0.0099

Mercury -54581-07-18 03:21 J -18214088.47 -18214088.36 -18214088.25 0.2672 0.0978

Mercury -54574-07-11 23:45 J -18211538.59 -18211538.51 -18211538.42 0.2667 0.1706

Mercury -54571-01-13 12:42 J -18210622.09 -18210621.97 -18210621.86 0.2660 0.1688

Mercury -54568-07-20 22:04 J -18209337.66 -18209337.58 -18209337.51 0.2674 0.1906

Mercury -54561-07-13 18:42 J -18206787.83 -18206787.72 -18206787.61 0.2669 0.0742

Mercury -54551-01-08 11:01 J -18203322.17 -18203322.04 -18203321.91 0.2664 0.1235

Mercury -54548-07-16 13:40 J -18202037.05 -18202036.93 -18202036.82 0.2671 0.0218

Venus -54543-09-29 21:06 J -18200135.77 -18200135.62 -18200135.47 0.2711 0.0115

Mercury -54541-07-09 09:49 J -18199487.13 -18199487.09 -18199487.05 0.2665 0.2502

Mercury -54538-01-11 14:37 J -18198571.03 -18198570.89 -18198570.74 0.2662 0.0349

Mercury -54535-07-19 08:23 J -18197286.26 -18197286.15 -18197286.05 0.2673 0.1155

Mercury -54528-07-12 04:47 J -18194736.39 -18194736.30 -18194736.20 0.2667 0.1521

Mercury -54525-01-14 18:57 J -18193819.81 -18193819.71 -18193819.61 0.2660 0.1979

Mercury -54522-07-22 02:52 J -18192535.45 -18192535.38 -18192535.31 0.2675 0.2073

Mercury -54518-01-06 13:40 J -18191270.98 -18191270.93 -18191270.88 0.2666 0.2491

Mercury -54515-07-14 23:45 J -18189985.62 -18189985.51 -18189985.40 0.2669 0.0556

Mercury -54505-01-09 17:16 J -18186519.92 -18186519.78 -18186519.65 0.2664 0.0953

Mercury -54502-07-17 18:28 J -18185234.84 -18185234.73 -18185234.61 0.2671 0.0406

Mercury -54495-07-10 14:52 J -18182684.94 -18182684.88 -18182684.83 0.2666 0.2314

Mercury -54492-01-11 20:52 J -18181768.77 -18181768.63 -18181768.48 0.2662 0.0645

Mercury -54489-07-19 13:11 J -18180484.05 -18180483.95 -18180483.85 0.2673 0.1328

Mercury -54482-07-13 09:49 J -18177934.19 -18177934.09 -18177933.99 0.2667 0.1340

Mercury -54479-01-15 01:11 J -18177017.53 -18177017.45 -18177017.38 0.2660 0.2276

Mercury -54476-07-22 07:54 J -18175733.23 -18175733.17 -18175733.11 0.2675 0.2245

Mercury -54472-01-06 19:54 J -18174468.75 -18174468.67 -18174468.59 0.2666 0.2218

Mercury -54469-07-15 04:47 J -18173183.41 -18173183.30 -18173183.19 0.2669 0.0377

Mercury -54459-01-09 23:16 J -18169717.67 -18169717.53 -18169717.39 0.2664 0.0669

Mercury -54456-07-17 23:30 J -18168432.63 -18168432.52 -18168432.41 0.2671 0.0572

Mercury -54449-07-10 19:40 J -18165882.74 -18165882.68 -18165882.61 0.2666 0.2134

Mercury -54446-01-13 03:06 J -18164966.51 -18164966.37 -18164966.23 0.2661 0.0933

Mercury -54443-07-20 18:13 J -18163681.83 -18163681.74 -18163681.65 0.2673 0.1499

Mercury -54436-07-13 14:52 J -18161131.99 -18161131.88 -18161131.78 0.2668 0.1156

Mercury -54433-01-16 07:25 J -18160215.22 -18160215.19 -18160215.15 0.2659 0.2577

Mercury -54430-07-23 12:42 J -18158931.01 -18158930.97 -18158930.92 0.2675 0.2414

Mercury -54426-01-08 01:54 J -18157666.52 -18157666.42 -18157666.32 0.2665 0.1942

Mercury -54423-07-16 09:49 J -18156381.21 -18156381.09 -18156380.98 0.2670 0.0217

Venus -54421-03-31 05:45 J -18155757.39 -18155757.26 -18155757.13 0.2622 0.1566

Mercury -54413-01-11 05:30 J -18152915.42 -18152915.27 -18152915.13 0.2663 0.0391

Mercury -54410-07-19 04:33 J -18151630.42 -18151630.31 -18151630.20 0.2672 0.0746

Mercury -54403-07-12 00:42 J -18149080.54 -18149080.47 -18149080.39 0.2666 0.1944

Mercury -54400-01-13 09:21 J -18148164.24 -18148164.11 -18148163.98 0.2661 0.1222

Mercury -54397-07-20 23:01 J -18146879.62 -18146879.54 -18146879.45 0.2674 0.1677

Mercury -54390-07-14 19:54 J -18144329.78 -18144329.67 -18144329.57 0.2668 0.0978

Mercury -54384-07-23 17:45 J -18142128.79 -18142128.76 -18142128.74 0.2675 0.2582

Mercury -54380-01-08 07:54 J -18140864.28 -18140864.17 -18140864.05 0.2665 0.1666

Mercury -54377-07-16 14:37 J -18139579.00 -18139578.89 -18139578.77 0.2670 0.0075

Mercury -54367-01-11 11:30 J -18136113.16 -18136113.02 -18136112.87 0.2663 0.0126

Mercury -54364-07-19 09:21 J -18134828.21 -18134828.11 -18134828.00 0.2672 0.0925

Mercury -54357-07-12 05:45 J -18132278.34 -18132278.26 -18132278.17 0.2667 0.1760

Mercury -54354-01-14 15:35 J -18131361.97 -18131361.85 -18131361.73 0.2661 0.1506

Mercury -54351-07-22 04:04 J -18130077.41 -18130077.33 -18130077.25 0.2674 0.1842

Mercury -54344-07-15 00:57 J -18127527.57 -18127527.46 -18127527.35 0.2668 0.0797

Mercury -54334-01-09 14:09 J -18124062.03 -18124061.91 -18124061.79 0.2665 0.1384

Mercury -54331-07-17 19:40 J -18122776.79 -18122776.68 -18122776.57 0.2670 0.0158

Mercury -54324-07-10 15:49 J -18120226.87 -18120226.84 -18120226.81 0.2665 0.2555

Mercury -54321-01-12 17:45 J -18119310.90 -18119310.76 -18119310.61 0.2662 0.0192

Mercury -54318-07-20 14:23 J -18118026.00 -18118025.90 -18118025.80 0.2672 0.1093

Mercury -54311-07-13 10:47 J -18115476.14 -18115476.05 -18115475.96 0.2667 0.1575

Mercury -54308-01-14 21:49 J -18114559.70 -18114559.59 -18114559.48 0.2660 0.1800

Mercury -54305-07-22 09:06 J -18113275.20 -18113275.12 -18113275.05 0.2674 0.2014

Mercury -54301-01-07 17:01 J -18112010.81 -18112010.79 -18112010.77 0.2667 0.2627

Venus -54300-09-30 00:57 J -18111379.62 -18111379.46 -18111379.31 0.2711 0.0070

Mercury -54298-07-16 05:45 J -18110725.37 -18110725.26 -18110725.14 0.2669 0.0617

Mercury -54288-01-09 20:09 J -18107259.79 -18107259.66 -18107259.52 0.2664 0.1111

Mercury -54285-07-18 00:42 J -18105974.59 -18105974.47 -18105974.36 0.2671 0.0341

Mercury -54278-07-11 20:37 J -18103424.69 -18103424.64 -18103424.59 0.2665 0.2371

Mercury -54275-01-12 23:59 J -18102508.65 -18102508.50 -18102508.35 0.2662 0.0469

Mercury -54272-07-20 19:25 J -18101223.79 -18101223.69 -18101223.59 0.2673 0.1270

Mercury -54265-07-13 15:49 J -18098673.94 -18098673.84 -18098673.74 0.2667 0.1393

Mercury -54262-01-16 04:04 J -18097757.42 -18097757.33 -18097757.24 0.2660 0.2090

Mercury -54259-07-23 13:54 J -18096472.98 -18096472.92 -18096472.85 0.2674 0.2183

Mercury -54255-01-07 23:01 J -18095208.60 -18095208.54 -18095208.47 0.2666 0.2355

Mercury -54252-07-16 10:47 J -18093923.16 -18093923.05 -18093922.94 0.2669 0.0431

Mercury -54242-01-11 02:23 J -18090457.54 -18090457.40 -18090457.26 0.2664 0.0825

Mercury -54239-07-19 05:30 J -18089172.38 -18089172.27 -18089172.15 0.2671 0.0519

Mercury -54232-07-12 01:40 J -18086622.49 -18086622.43 -18086622.36 0.2665 0.2184

Mercury -54229-01-14 06:13 J -18085706.38 -18085706.24 -18085706.10 0.2662 0.0754

Mercury -54226-07-22 00:13 J -18084421.58 -18084421.49 -18084421.39 0.2673 0.1444

Mercury -54219-07-14 20:52 J -18081871.73 -18081871.63 -18081871.53 0.2667 0.1211

Mercury -54216-01-16 10:18 J -18080955.13 -18080955.07 -18080955.01 0.2660 0.2381

Mercury -54213-07-23 18:57 J -18079670.76 -18079670.71 -18079670.66 0.2675 0.2354

Mercury -54209-01-09 05:16 J -18078406.37 -18078406.28 -18078406.19 0.2666 0.2077

Mercury -54206-07-17 15:49 J -18077120.96 -18077120.84 -18077120.73 0.2669 0.0262

Mercury -54196-01-11 08:37 J -18073655.28 -18073655.14 -18073655.00 0.2664 0.0542

Mercury -54193-07-19 10:33 J -18072370.17 -18072370.06 -18072369.95 0.2671 0.0689

Mercury -54186-07-13 06:42 J -18069820.29 -18069820.22 -18069820.14 0.2666 0.2000

Mercury -54183-01-14 12:28 J -18068904.12 -18068903.98 -18068903.85 0.2662 0.1043

Mercury -54180-07-22 05:16 J -18067619.37 -18067619.28 -18067619.19 0.2673 0.1612

Venus -54178-04-01 03:21 J -18067001.50 -18067001.36 -18067001.22 0.2622 0.1389

Mercury -54173-07-15 01:54 J -18065069.53 -18065069.42 -18065069.32 0.2668 0.1029

Mercury -54167-07-24 23:45 J -18062868.54 -18062868.51 -18062868.47 0.2675 0.2521

Mercury -54163-01-09 11:16 J -18061604.13 -18061604.03 -18061603.92 0.2666 0.1801

Mercury -54160-07-17 20:37 J -18060318.75 -18060318.64 -18060318.52 0.2670 0.0130

Mercury -54150-01-12 14:52 J -18056853.03 -18056852.88 -18056852.74 0.2663 0.0260

Mercury -54147-07-20 15:35 J -18055567.96 -18055567.85 -18055567.74 0.2671 0.0862

Mercury -54140-07-13 11:45 J -18053018.09 -18053018.01 -18053017.92 0.2666 0.1815

Mercury -54137-01-15 18:42 J -18052101.85 -18052101.72 -18052101.59 0.2661 0.1334

Mercury -54134-07-23 10:18 J -18050817.16 -18050817.07 -18050816.99 0.2673 0.1785

Mercury -54127-07-16 06:42 J -18048267.32 -18048267.22 -18048267.11 0.2668 0.0857

Mercury -54117-01-10 17:30 J -18044801.89 -18044801.77 -18044801.65 0.2665 0.1530

Mercury -54114-07-19 01:40 J -18043516.54 -18043516.43 -18043516.31 0.2670 0.0119

Mercury -54107-07-11 21:35 J -18040966.62 -18040966.60 -18040966.58 0.2665 0.2609

Mercury -54104-01-12 20:52 J -18040050.78 -18040050.63 -18040050.48 0.2663 0.0047

Mercury -54101-07-20 20:23 J -18038765.75 -18038765.65 -18038765.54 0.2672 0.1042

Mercury -54094-07-14 16:47 J -18036215.89 -18036215.80 -18036215.71 0.2667 0.1633

Mercury -54091-01-16 00:57 J -18035299.58 -18035299.46 -18035299.35 0.2661 0.1623

Mercury -54088-07-23 15:06 J -18034014.94 -18034014.87 -18034014.79 0.2674 0.1952

Mercury -54081-07-16 11:45 J -18031465.12 -18031465.01 -18031464.89 0.2668 0.0671

Mercury -54071-01-10 23:30 J -18027999.65 -18027999.52 -18027999.39 0.2665 0.1252

Mercury -54068-07-19 06:42 J -18026714.34 -18026714.22 -18026714.11 0.2670 0.0277

Mercury -54061-07-12 02:37 J -18024164.43 -18024164.39 -18024164.34 0.2665 0.2423

Mercury -54058-01-14 03:06 J -18023248.52 -18023248.37 -18023248.22 0.2663 0.0304

Venus -54057-09-30 05:01 J -18022623.44 -18022623.29 -18022623.14 0.2710 0.0143

Mercury -54055-07-22 01:25 J -18021963.54 -18021963.44 -18021963.34 0.2672 0.1207

Mercury -54048-07-14 21:49 J -18019413.69 -18019413.59 -18019413.49 0.2667 0.1447

Mercury -54045-01-17 07:11 J -18018497.31 -18018497.20 -18018497.10 0.2660 0.1908

Mercury -54042-07-24 20:09 J -18017212.73 -18017212.66 -18017212.60 0.2674 0.2125

Mercury -54038-01-09 02:23 J -18015948.45 -18015948.40 -18015948.35 0.2667 0.2486

Mercury -54035-07-17 16:47 J -18014662.91 -18014662.80 -18014662.69 0.2669 0.0491

Mercury -54025-01-12 05:45 J -18011197.40 -18011197.26 -18011197.13 0.2664 0.0981

Mercury -54022-07-20 11:45 J -18009912.13 -18009912.01 -18009911.90 0.2671 0.0458

Mercury -54015-07-13 07:40 J -18007362.24 -18007362.18 -18007362.12 0.2665 0.2238

Mercury -54012-01-14 09:21 J -18006446.26 -18006446.11 -18006445.97 0.2662 0.0588

Mercury -54009-07-22 06:28 J -18005161.33 -18005161.23 -18005161.14 0.2672 0.1382

Mercury -54002-07-16 02:52 J -18002611.48 -18002611.38 -18002611.28 0.2667 0.1265

54TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 54th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
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Mercury -53999-01-17 13:25 J -18001695.03 -18001694.94 -18001694.86 0.2660 0.2195

Mercury -53996-07-25 00:57 J -18000410.51 -18000410.46 -18000410.40 0.2674 0.2288

Mercury -53992-01-09 08:23 J -17999146.22 -17999146.15 -17999146.07 0.2666 0.2219

Mercury -53989-07-17 21:49 J -17997860.71 -17997860.59 -17997860.48 0.2669 0.0311

Mercury -53979-01-12 11:45 J -17994395.15 -17994395.01 -17994394.87 0.2664 0.0697

Mercury -53976-07-20 16:33 J -17993109.92 -17993109.81 -17993109.69 0.2671 0.0633

Mercury -53969-07-13 12:42 J -17990560.04 -17990559.97 -17990559.90 0.2665 0.2054

Mercury -53966-01-15 15:35 J -17989643.99 -17989643.85 -17989643.72 0.2662 0.0873

Mercury -53963-07-23 11:16 J -17988359.12 -17988359.03 -17988358.93 0.2673 0.1552

Mercury -53956-07-16 07:54 J -17985809.28 -17985809.17 -17985809.07 0.2667 0.1089

Mercury -53953-01-18 19:40 J -17984892.73 -17984892.68 -17984892.63 0.2660 0.2484

Mercury -53950-07-26 05:59 J -17983608.29 -17983608.25 -17983608.21 0.2675 0.2459

Mercury -53946-01-10 14:37 J -17982343.99 -17982343.89 -17982343.79 0.2666 0.1941

Mercury -53943-07-19 02:52 J -17981058.50 -17981058.38 -17981058.27 0.2669 0.0144

Venus -53935-04-01 01:25 J -17978245.59 -17978245.44 -17978245.30 0.2623 0.1245

Mercury -53933-01-13 17:59 J -17977592.90 -17977592.75 -17977592.61 0.2664 0.0425

Mercury -53930-07-21 21:35 J -17976307.71 -17976307.60 -17976307.49 0.2671 0.0806

Mercury -53923-07-14 17:45 J -17973757.84 -17973757.76 -17973757.68 0.2666 0.1871

Mercury -53920-01-15 21:35 J -17972841.73 -17972841.60 -17972841.46 0.2662 0.1157

Mercury -53917-07-23 16:18 J -17971556.91 -17971556.82 -17971556.73 0.2673 0.1722

Mercury -53910-07-17 12:57 J -17969007.07 -17969006.96 -17969006.86 0.2668 0.0912

Mercury -53904-07-26 10:47 J -17966806.06 -17966806.05 -17966806.03 0.2675 0.2626

Mercury -53900-01-10 20:37 J -17965541.75 -17965541.64 -17965541.52 0.2666 0.1670

Mercury -53897-07-19 07:40 J -17964256.29 -17964256.18 -17964256.06 0.2669 0.0104

Mercury -53890-07-13 03:35 J -17961706.35 -17961706.35 -17961706.35 0.2664 0.2664

Mercury -53887-01-14 00:13 J -17960790.64 -17960790.49 -17960790.35 0.2664 0.0149

Mercury -53884-07-22 02:37 J -17959505.50 -17959505.39 -17959505.29 0.2671 0.0975

Mercury -53877-07-14 22:47 J -17956955.64 -17956955.55 -17956955.46 0.2666 0.1687

Mercury -53874-01-17 03:49 J -17956039.46 -17956039.34 -17956039.21 0.2661 0.1440

Mercury -53871-07-24 21:21 J -17954754.69 -17954754.61 -17954754.53 0.2673 0.1896

Mercury -53864-07-17 17:45 J -17952204.87 -17952204.76 -17952204.65 0.2668 0.0730

Mercury -53854-01-12 02:52 J -17948739.51 -17948739.38 -17948739.26 0.2665 0.1396

Mercury -53851-07-20 12:42 J -17947454.08 -17947453.97 -17947453.85 0.2670 0.0222

Mercury -53844-07-13 08:37 J -17944904.18 -17944904.14 -17944904.10 0.2665 0.2480

Mercury -53841-01-15 06:13 J -17943988.39 -17943988.24 -17943988.09 0.2663 0.0145

Mercury -53838-07-23 07:25 J -17942703.29 -17942703.19 -17942703.08 0.2672 0.1154

Mercury -53831-07-16 03:49 J -17940153.44 -17940153.34 -17940153.25 0.2666 0.1505

Mercury -53828-01-17 10:04 J -17939237.19 -17939237.08 -17939236.97 0.2661 0.1728

Mercury -53825-07-25 02:09 J -17937952.48 -17937952.41 -17937952.34 0.2674 0.2061

Mercury -53821-01-10 05:45 J -17936688.28 -17936688.26 -17936688.23 0.2667 0.2619

Mercury -53818-07-18 22:47 J -17935402.66 -17935402.55 -17935402.43 0.2668 0.0549

Venus -53814-10-01 08:52 J -17933867.28 -17933867.13 -17933866.98 0.2710 0.0255

Mercury -53808-01-12 08:52 J -17931937.26 -17931937.13 -17931936.99 0.2665 0.1122

Mercury -53805-07-20 17:45 J -17930651.87 -17930651.76 -17930651.65 0.2670 0.0395

Mercury -53798-07-14 13:40 J -17928101.99 -17928101.93 -17928101.87 0.2665 0.2294

Mercury -53795-01-15 12:28 J -17927186.13 -17927185.98 -17927185.84 0.2663 0.0423

Mercury -53792-07-23 12:28 J -17925901.08 -17925900.98 -17925900.88 0.2672 0.1318

Mercury -53785-07-16 08:52 J -17923351.23 -17923351.13 -17923351.03 0.2667 0.1328

Mercury -53782-01-18 16:18 J -17922434.91 -17922434.82 -17922434.72 0.2661 0.2012

Mercury -53779-07-26 07:11 J -17921150.26 -17921150.20 -17921150.14 0.2674 0.2230

Mercury -53775-01-10 11:59 J -17919886.07 -17919886.00 -17919885.94 0.2667 0.2347

Mercury -53772-07-19 03:49 J -17918600.45 -17918600.34 -17918600.23 0.2669 0.0371

Mercury -53762-01-13 15:06 J -17915135.01 -17915134.87 -17915134.73 0.2665 0.0853

Mercury -53759-07-21 22:47 J -17913849.67 -17913849.55 -17913849.44 0.2670 0.0573

Mercury -53752-07-14 18:42 J -17911299.79 -17911299.72 -17911299.65 0.2665 0.2111

Mercury -53749-01-16 18:42 J -17910383.87 -17910383.72 -17910383.58 0.2662 0.0705

Mercury -53746-07-24 17:30 J -17909098.87 -17909098.77 -17909098.68 0.2672 0.1493

Mercury -53739-07-17 13:54 J -17906549.03 -17906548.92 -17906548.82 0.2667 0.1146

Mercury -53736-01-18 22:33 J -17905632.63 -17905632.56 -17905632.49 0.2660 0.2300

Mercury -53733-07-26 11:59 J -17904348.04 -17904348.00 -17904347.95 0.2674 0.2398

Mercury -53729-01-11 17:59 J -17903083.84 -17903083.75 -17903083.66 0.2666 0.2085

Mercury -53726-07-20 08:52 J -17901798.25 -17901798.13 -17901798.02 0.2669 0.0199

Mercury -53716-01-13 21:06 J -17898332.76 -17898332.62 -17898332.47 0.2664 0.0575

Mercury -53713-07-22 03:35 J -17897047.46 -17897047.35 -17897047.24 0.2671 0.0743

Mercury -53706-07-15 23:45 J -17894497.59 -17894497.51 -17894497.43 0.2665 0.1927

Mercury -53703-01-17 00:42 J -17893581.60 -17893581.47 -17893581.33 0.2662 0.0985

Mercury -53700-07-24 22:18 J -17892296.65 -17892296.57 -17892296.48 0.2673 0.1664

Mercury -53693-07-17 18:57 J -17889746.82 -17889746.71 -17889746.61 0.2667 0.0968

Venus -53692-03-31 23:01 J -17889489.69 -17889489.54 -17889489.39 0.2623 0.1058

Mercury -53690-01-20 04:47 J -17888830.33 -17888830.30 -17888830.27 0.2660 0.2583

Mercury -53687-07-27 17:01 J -17887545.82 -17887545.79 -17887545.76 0.2674 0.2565

Mercury -53683-01-11 23:59 J -17886281.60 -17886281.50 -17886281.39 0.2666 0.1811

Mercury -53680-07-20 13:54 J -17884996.04 -17884995.92 -17884995.81 0.2669 0.0092

Mercury -53670-01-15 03:21 J -17881530.51 -17881530.36 -17881530.22 0.2664 0.0308

Mercury -53667-07-23 08:37 J -17880245.25 -17880245.14 -17880245.03 0.2671 0.0916

Mercury -53660-07-16 04:47 J -17877695.39 -17877695.30 -17877695.21 0.2666 0.1743

Mercury -53657-01-18 06:57 J -17876779.34 -17876779.21 -17876779.08 0.2662 0.1262

Mercury -53654-07-26 03:21 J -17875494.44 -17875494.36 -17875494.28 0.2673 0.1831

Mercury -53647-07-18 23:45 J -17872944.62 -17872944.51 -17872944.39 0.2667 0.0791

Mercury -53637-01-13 06:13 J -17869479.36 -17869479.24 -17869479.13 0.2666 0.1541

Mercury -53634-07-21 18:42 J -17868193.83 -17868193.72 -17868193.60 0.2669 0.0182

Mercury -53627-07-14 14:37 J -17865643.93 -17865643.89 -17865643.86 0.2664 0.2536

Mercury -53624-01-15 09:21 J -17864728.25 -17864728.11 -17864727.96 0.2664 0.0083

Mercury -53621-07-23 13:40 J -17863443.04 -17863442.93 -17863442.83 0.2671 0.1088

Mercury -53614-07-17 09:49 J -17860893.19 -17860893.09 -17860893.00 0.2666 0.1566

Mercury -53611-01-18 13:11 J -17859977.07 -17859976.95 -17859976.83 0.2661 0.1544

Mercury -53608-07-26 08:23 J -17858692.23 -17858692.15 -17858692.08 0.2673 0.2000

Mercury -53601-07-19 04:47 J -17856142.41 -17856142.30 -17856142.18 0.2668 0.0608

Mercury -53591-01-13 12:13 J -17852677.12 -17852676.99 -17852676.86 0.2665 0.1268

Mercury -53588-07-21 23:45 J -17851391.62 -17851391.51 -17851391.39 0.2670 0.0339

Mercury -53581-07-14 19:40 J -17848841.74 -17848841.68 -17848841.63 0.2664 0.2356

Mercury -53578-01-16 15:35 J -17847926.00 -17847925.85 -17847925.70 0.2663 0.0255

Mercury -53575-07-24 18:42 J -17846640.82 -17846640.72 -17846640.62 0.2672 0.1265

Venus -53571-10-01 12:57 J -17845111.11 -17845110.96 -17845110.81 0.2709 0.0406

Mercury -53568-07-17 14:52 J -17844090.98 -17844090.88 -17844090.78 0.2666 0.1384

Mercury -53565-01-19 19:25 J -17843174.80 -17843174.69 -17843174.58 0.2661 0.1830

Mercury -53562-07-27 13:11 J -17841890.01 -17841889.95 -17841889.88 0.2673 0.2169

Mercury -53558-01-11 15:21 J -17840625.91 -17840625.86 -17840625.81 0.2667 0.2482

Mercury -53555-07-20 09:49 J -17839340.20 -17839340.09 -17839339.98 0.2668 0.0429

Mercury -53545-01-14 18:13 J -17835874.87 -17835874.74 -17835874.60 0.2665 0.1000

Mercury -53542-07-23 04:47 J -17834589.41 -17834589.30 -17834589.19 0.2670 0.0510

Mercury -53535-07-16 00:42 J -17832039.54 -17832039.47 -17832039.41 0.2665 0.2170

Mercury -53532-01-16 21:49 J -17831123.73 -17831123.59 -17831123.45 0.2663 0.0538

Mercury -53529-07-24 23:30 J -17829838.61 -17829838.52 -17829838.42 0.2672 0.1430

Mercury -53522-07-18 19:54 J -17827288.78 -17827288.67 -17827288.57 0.2666 0.1208

Mercury -53519-01-20 01:40 J -17826372.52 -17826372.43 -17826372.34 0.2661 0.2112

Mercury -53516-07-27 18:13 J -17825087.79 -17825087.74 -17825087.69 0.2674 0.2336

Mercury -53512-01-11 21:21 J -17823823.69 -17823823.61 -17823823.53 0.2667 0.2214

Mercury -53509-07-20 14:52 J -17822538.00 -17822537.88 -17822537.77 0.2668 0.0257

Mercury -53499-01-15 00:28 J -17819072.62 -17819072.48 -17819072.34 0.2665 0.0728

Mercury -53496-07-23 09:49 J -17817787.20 -17817787.09 -17817786.98 0.2670 0.0686

Mercury -53489-07-16 05:45 J -17815237.34 -17815237.26 -17815237.19 0.2665 0.1987

Mercury -53486-01-18 03:49 J -17814321.48 -17814321.34 -17814321.20 0.2663 0.0814

Mercury -53483-07-26 04:33 J -17813036.40 -17813036.31 -17813036.22 0.2672 0.1601

Mercury -53476-07-19 00:42 J -17810486.57 -17810486.47 -17810486.36 0.2667 0.1028

Mercury -53473-01-21 07:54 J -17809570.23 -17809570.17 -17809570.11 0.2660 0.2401

Mercury -53470-07-28 23:01 J -17808285.57 -17808285.54 -17808285.50 0.2674 0.2500

Mercury -53466-01-13 03:21 J -17807021.45 -17807021.36 -17807021.26 0.2667 0.1951

Mercury -53463-07-21 19:54 J -17805735.79 -17805735.67 -17805735.56 0.2669 0.0112

Mercury -53453-01-16 06:42 J -17802270.37 -17802270.22 -17802270.08 0.2664 0.0459

Mercury -53450-07-24 14:37 J -17800985.00 -17800984.89 -17800984.78 0.2671 0.0858

Venus -53449-03-31 21:06 J -17800733.77 -17800733.62 -17800733.46 0.2624 0.0933

Mercury -53443-07-17 10:47 J -17798435.14 -17798435.05 -17798434.97 0.2665 0.1805

Mercury -53440-01-18 10:04 J -17797519.21 -17797519.08 -17797518.94 0.2662 0.1092

Mercury -53437-07-26 09:35 J -17796234.19 -17796234.10 -17796234.02 0.2673 0.1769

Mercury -53430-07-20 05:45 J -17793684.37 -17793684.26 -17793684.15 0.2667 0.0847

Mercury -53424-07-29 04:04 J -17791483.33 -17791483.33 -17791483.32 0.2674 0.2666

Mercury -53420-01-13 09:35 J -17790219.21 -17790219.10 -17790218.99 0.2666 0.1682

Mercury -53417-07-22 00:57 J -17788933.58 -17788933.46 -17788933.35 0.2669 0.0144

Mercury -53410-07-15 20:23 J -17786383.67 -17786383.65 -17786383.63 0.2664 0.2595

Mercury -53407-01-16 12:42 J -17785468.12 -17785467.97 -17785467.83 0.2664 0.0184

Mercury -53404-07-24 19:40 J -17784182.78 -17784182.68 -17784182.57 0.2671 0.1027

Mercury -53397-07-17 15:49 J -17781632.94 -17781632.84 -17781632.75 0.2666 0.1624

Mercury -53394-01-19 16:18 J -17780716.95 -17780716.82 -17780716.69 0.2662 0.1371

Mercury -53391-07-27 14:23 J -17779431.98 -17779431.90 -17779431.82 0.2673 0.1937

Mercury -53384-07-20 10:47 J -17776882.16 -17776882.05 -17776881.94 0.2668 0.0667

Mercury -53374-01-14 15:35 J -17773416.97 -17773416.85 -17773416.73 0.2666 0.1419

Mercury -53371-07-23 05:45 J -17772131.37 -17772131.26 -17772131.14 0.2669 0.0279

Mercury -53364-07-16 01:25 J -17769581.48 -17769581.44 -17769581.39 0.2664 0.2409

Mercury -53361-01-17 18:57 J -17768665.86 -17768665.71 -17768665.57 0.2664 0.0126

Mercury -53358-07-26 00:42 J -17767380.57 -17767380.47 -17767380.37 0.2671 0.1197

Mercury -53351-07-18 20:37 J -17764830.73 -17764830.64 -17764830.54 0.2666 0.1445

Mercury -53348-01-19 22:33 J -17763914.68 -17763914.56 -17763914.45 0.2662 0.1648

Mercury -53345-07-27 19:25 J -17762629.76 -17762629.69 -17762629.62 0.2673 0.2104

Mercury -53341-01-12 18:42 J -17761365.74 -17761365.72 -17761365.69 0.2668 0.2610

Mercury -53338-07-21 15:49 J -17760079.95 -17760079.84 -17760079.73 0.2668 0.0488

Mercury -53328-01-14 21:35 J -17756614.73 -17756614.60 -17756614.47 0.2666 0.1148

Venus -53328-10-01 17:01 J -17756354.94 -17756354.79 -17756354.64 0.2709 0.0534

Mercury -53325-07-23 10:47 J -17755329.16 -17755329.05 -17755328.93 0.2670 0.0449

Mercury -53318-07-17 06:28 J -17752779.29 -17752779.23 -17752779.17 0.2664 0.2229

Mercury -53315-01-18 00:57 J -17751863.61 -17751863.46 -17751863.32 0.2663 0.0364

Mercury -53312-07-26 05:45 J -17750578.36 -17750578.26 -17750578.17 0.2672 0.1372

Mercury -53305-07-19 01:40 J -17748028.53 -17748028.43 -17748028.32 0.2666 0.1263

Mercury -53302-01-21 04:33 J -17747112.41 -17747112.31 -17747112.20 0.2661 0.1930

Mercury -53299-07-29 00:13 J -17745827.54 -17745827.49 -17745827.43 0.2673 0.2270

Mercury -53295-01-13 00:57 J -17744563.53 -17744563.46 -17744563.40 0.2667 0.2347

Mercury -53292-07-21 20:52 J -17743277.75 -17743277.63 -17743277.52 0.2668 0.0313

Mercury -53282-01-16 03:49 J -17739812.48 -17739812.34 -17739812.20 0.2665 0.0875

Mercury -53279-07-24 15:49 J -17738526.95 -17738526.84 -17738526.73 0.2670 0.0622

Mercury -53272-07-17 11:30 J -17735977.09 -17735977.02 -17735976.94 0.2665 0.2045

Mercury -53269-01-19 07:11 J -17735061.34 -17735061.20 -17735061.06 0.2663 0.0646

Mercury -53266-07-27 10:33 J -17733776.15 -17733776.06 -17733775.97 0.2672 0.1536

Mercury -53259-07-20 06:42 J -17731226.32 -17731226.22 -17731226.11 0.2666 0.1086

Mercury -53256-01-21 10:47 J -17730310.13 -17730310.05 -17730309.97 0.2661 0.2206

Mercury -53253-07-29 05:16 J -17729025.32 -17729025.28 -17729025.24 0.2674 0.2435

Mercury -53249-01-14 06:57 J -17727761.30 -17727761.21 -17727761.12 0.2667 0.2083

Mercury -53246-07-23 01:54 J -17726475.54 -17726475.42 -17726475.31 0.2668 0.0145

Mercury -53236-01-16 09:49 J -17723010.23 -17723010.09 -17723009.95 0.2665 0.0606

Mercury -53233-07-24 20:52 J -17721724.74 -17721724.63 -17721724.52 0.2670 0.0796

Mercury -53226-07-18 16:33 J -17719174.89 -17719174.81 -17719174.73 0.2665 0.1866

Mercury -53223-01-19 13:25 J -17718259.08 -17718258.94 -17718258.81 0.2663 0.0924

Mercury -53220-07-27 15:35 J -17716973.94 -17716973.85 -17716973.76 0.2672 0.1705

Mercury -53213-07-20 11:45 J -17714424.12 -17714424.01 -17714423.90 0.2667 0.0905

Mercury -53210-01-22 17:01 J -17713507.83 -17713507.79 -17713507.74 0.2661 0.2494

Mercury -53207-07-30 10:18 J -17712223.10 -17712223.07 -17712223.05 0.2674 0.2601

Venus -53206-04-01 18:42 J -17711977.88 -17711977.72 -17711977.56 0.2624 0.0745

Mercury -53203-01-14 12:57 J -17710959.07 -17710958.96 -17710958.86 0.2667 0.1824

Mercury -53200-07-23 06:57 J -17709673.33 -17709673.21 -17709673.10 0.2669 0.0107

Mercury -53193-07-16 02:23 J -17707123.41 -17707123.40 -17707123.40 0.2664 0.2653

Mercury -53190-01-17 16:04 J -17706207.98 -17706207.83 -17706207.69 0.2665 0.0339

Mercury -53187-07-26 01:40 J -17704922.53 -17704922.43 -17704922.32 0.2671 0.0964

Mercury -53180-07-18 21:35 J -17702372.69 -17702372.60 -17702372.51 0.2665 0.1682

Mercury -53177-01-20 19:25 J -17701456.82 -17701456.69 -17701456.56 0.2662 0.1200

Mercury -53174-07-28 20:37 J -17700171.72 -17700171.64 -17700171.56 0.2673 0.1875

Mercury -53167-07-21 16:47 J -17697621.91 -17697621.80 -17697621.69 0.2667 0.0729

Mercury -53157-01-15 18:57 J -17694156.83 -17694156.71 -17694156.59 0.2666 0.1556

Mercury -53154-07-24 11:45 J -17692871.12 -17692871.01 -17692870.89 0.2669 0.0227

Mercury -53147-07-17 07:25 J -17690321.23 -17690321.19 -17690321.15 0.2664 0.2472

Mercury -53144-01-17 22:04 J -17689405.73 -17689405.58 -17689405.43 0.2664 0.0069

Mercury -53141-07-26 06:42 J -17688120.32 -17688120.22 -17688120.12 0.2671 0.1133

Mercury -53134-07-20 02:37 J -17685570.48 -17685570.39 -17685570.29 0.2666 0.1501

Mercury -53131-01-21 01:40 J -17684654.55 -17684654.43 -17684654.31 0.2662 0.1471

Mercury -53128-07-29 01:25 J -17683369.51 -17683369.44 -17683369.37 0.2673 0.2039

Mercury -53121-07-21 21:49 J -17680819.70 -17680819.59 -17680819.48 0.2667 0.0550

Mercury -53111-01-16 00:57 J -17677354.58 -17677354.46 -17677354.33 0.2666 0.1295

Mercury -53108-07-24 16:47 J -17676068.91 -17676068.80 -17676068.68 0.2669 0.0384

Mercury -53101-07-17 12:28 J -17673519.04 -17673518.98 -17673518.92 0.2664 0.2285

Mercury -53098-01-19 04:18 J -17672603.47 -17672603.32 -17672603.18 0.2664 0.0211

Mercury -53095-07-27 11:45 J -17671318.11 -17671318.01 -17671317.91 0.2671 0.1304

Mercury -53088-07-20 07:40 J -17668768.28 -17668768.18 -17668768.08 0.2666 0.1323

Mercury -53085-01-22 07:40 J -17667852.29 -17667852.18 -17667852.06 0.2662 0.1749

Venus -53085-10-01 21:06 J -17667598.77 -17667598.62 -17667598.48 0.2708 0.0688

Mercury -53082-07-30 06:28 J -17666567.29 -17666567.23 -17666567.17 0.2673 0.2203

Mercury -53078-01-14 04:18 J -17665303.37 -17665303.32 -17665303.27 0.2668 0.2482

Mercury -53075-07-23 02:52 J -17664017.50 -17664017.38 -17664017.27 0.2668 0.0376

Mercury -53065-01-17 07:11 J -17660552.34 -17660552.20 -17660552.07 0.2666 0.1031

Mercury -53062-07-25 21:49 J -17659266.70 -17659266.59 -17659266.48 0.2670 0.0558

Mercury -53055-07-18 17:30 J -17656716.84 -17656716.77 -17656716.70 0.2664 0.2108

Mercury -53052-01-19 10:18 J -17655801.21 -17655801.07 -17655800.93 0.2664 0.0474

Mercury -53049-07-27 16:33 J -17654515.90 -17654515.81 -17654515.71 0.2672 0.1474

Mercury -53042-07-21 12:42 J -17651966.07 -17651965.97 -17651965.86 0.2666 0.1144

Mercury -53039-01-22 13:54 J -17651050.01 -17651049.92 -17651049.82 0.2661 0.2025

Mercury -53036-07-30 11:16 J -17649765.08 -17649765.03 -17649764.98 0.2673 0.2372

Mercury -53032-01-14 10:18 J -17648501.15 -17648501.07 -17648500.99 0.2668 0.2222

Mercury -53029-07-23 07:54 J -17647215.29 -17647215.17 -17647215.06 0.2668 0.0206

Mercury -53019-01-17 13:11 J -17643750.09 -17643749.95 -17643749.81 0.2665 0.0764

Mercury -53016-07-26 02:52 J -17642464.49 -17642464.38 -17642464.27 0.2670 0.0731

Mercury -53009-07-18 22:33 J -17639914.64 -17639914.56 -17639914.48 0.2665 0.1923

Mercury -53006-01-20 16:33 J -17638998.95 -17638998.81 -17638998.67 0.2663 0.0749

Mercury -53003-07-28 21:35 J -17637713.69 -17637713.60 -17637713.51 0.2672 0.1641

53RD MILLENNIUM BCE

This is a list of transits visible from Earth in the 53rd millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-52996-07-21 17:45 J	-17635163.87	-17635163.76	-17635163.65	0.2666	0.0968		
Mercury	-52993-01-23 20:09 J	-17634247.73	-17634247.66	-17634247.59	0.2661	0.2298		
Mercury	-52990-07-31 16:18 J	-17632962.85	-17632962.82	-17632962.78	0.2674	0.2534		
Mercury	-52986-01-15 16:18 J	-17631698.91	-17631698.82	-17631698.72	0.2667	0.1958		
Mercury	-52983-07-24 12:57 J	-17630413.08	-17630412.96	-17630412.85	0.2668	0.0101		
Mercury	-52973-01-18 19:11 J	-17626947.84	-17626947.70	-17626947.55	0.2665	0.0499		
Mercury	-52970-07-27 07:54 J	-17625662.28	-17625662.17	-17625662.07	0.2670	0.0906		
Venus	-52963-04-01 16:47 J	-17623221.96	-17623221.80	-17623221.64	0.2625	0.0602		
Mercury	-52963-07-20 03:35 J	-17623112.44	-17623112.35	-17623112.26	0.2665	0.1744		
Mercury	-52960-01-20 22:33 J	-17622196.69	-17622196.56	-17622196.42	0.2663	0.1015		
Mercury	-52957-07-29 02:37 J	-17620911.47	-17620911.39	-17620911.31	0.2672	0.1807		
Mercury	-52950-07-22 22:47 J	-17618361.66	-17618361.55	-17618361.44	0.2667	0.0788		
Mercury	-52947-01-24 02:23 J	-17617445.43	-17617445.40	-17617445.37	0.2661	0.2579		
Mercury	-52940-01-15 22:18 J	-17614896.68	-17614896.57	-17614896.46	0.2667	0.1697		
Mercury	-52937-07-24 17:45 J	-17613610.87	-17613610.76	-17613610.64	0.2669	0.0164		
Mercury	-52930-07-18 13:11 J	-17611060.98	-17611060.95	-17611060.91	0.2663	0.2533		
Mercury	-52927-01-19 01:25 J	-17610145.58	-17610145.44	-17610145.29	0.2665	0.0224		
Mercury	-52924-07-27 12:42 J	-17608860.07	-17608859.97	-17608859.86	0.2670	0.1070		
Mercury	-52917-07-20 08:37 J	-17606310.24	-17606310.14	-17606310.05	0.2665	0.1565		
Mercury	-52914-01-22 04:47 J	-17605394.43	-17605394.30	-17605394.17	0.2663	0.1295		

Mercury -52911-07-30 07:40 J -17604109.26 -17604109.18 -17604109.11 0.2672 0.1975

Mercury -52904-07-23 03:49 J -17601559.46 -17601559.34 -17601559.23 0.2667 0.0617

Mercury -52894-01-17 04:33 J -17598094.43 -17598094.31 -17598094.19 0.2666 0.1438

Mercury -52891-07-25 22:47 J -17596808.66 -17596808.55 -17596808.43 0.2669 0.0326

Mercury -52884-07-18 18:13 J -17594258.79 -17594258.74 -17594258.68 0.2664 0.2351

Mercury -52881-01-20 07:25 J -17593343.33 -17593343.19 -17593343.04 0.2664 0.0054

Mercury -52878-07-28 17:45 J -17592057.86 -17592057.76 -17592057.66 0.2671 0.1238

Mercury -52871-07-21 13:40 J -17589508.03 -17589507.93 -17589507.83 0.2666 0.1388

Mercury -52868-01-22 11:01 J -17588592.16 -17588592.04 -17588591.92 0.2662 0.1571

Mercury -52865-07-30 12:28 J -17587307.04 -17587306.98 -17587306.91 0.2673 0.2139

Mercury -52861-01-15 07:40 J -17586043.20 -17586043.18 -17586043.15 0.2668 0.2613

Mercury -52858-07-24 08:52 J -17584757.25 -17584757.13 -17584757.02 0.2667 0.0443

Mercury -52848-01-17 10:33 J -17581292.19 -17581292.06 -17581291.93 0.2666 0.1178

Mercury -52845-07-26 03:49 J -17580006.45 -17580006.34 -17580006.23 0.2669 0.0490

Venus -52842-10-03 00:57 J -17578842.60 -17578842.46 -17578842.31 0.2708 0.0822

Mercury -52838-07-19 23:16 J -17577456.59 -17577456.53 -17577456.46 0.2664 0.2169

Mercury -52835-01-20 13:40 J -17576541.08 -17576540.93 -17576540.79 0.2664 0.0313

Mercury -52832-07-28 22:47 J -17575255.65 -17575255.55 -17575255.46 0.2671 0.1408

Mercury -52825-07-21 18:42 J -17572705.83 -17572705.72 -17572705.62 0.2666 0.1209

Mercury -52822-01-23 17:01 J -17571789.89 -17571789.79 -17571789.68 0.2662 0.1842

Mercury -52819-07-31 17:30 J -17570504.83 -17570504.77 -17570504.72 0.2673 0.2304

Mercury -52815-01-15 13:40 J -17569240.99 -17569240.93 -17569240.86 0.2668 0.2357

Mercury -52812-07-24 13:54 J -17567955.04 -17567954.92 -17567954.81 0.2668 0.0288

Mercury -52802-01-18 16:33 J -17564489.95 -17564489.81 -17564489.68 0.2666 0.0914

Mercury -52799-07-27 08:52 J -17563204.24 -17563204.13 -17563204.02 0.2670 0.0665

Mercury -52792-07-20 04:18 J -17560654.39 -17560654.32 -17560654.24 0.2664 0.1991

Mercury -52789-01-21 19:40 J -17559738.82 -17559738.68 -17559738.54 0.2664 0.0575

Mercury -52786-07-30 03:35 J -17558453.44 -17558453.35 -17558453.25 0.2671 0.1575

Mercury -52779-07-22 23:45 J -17555903.62 -17555903.51 -17555903.40 0.2666 0.1029

Mercury -52776-01-23 23:16 J -17554987.62 -17554987.53 -17554987.44 0.2662 0.2115

Mercury -52773-07-31 22:18 J -17553702.61 -17553702.57 -17553702.52 0.2673 0.2467

Mercury -52769-01-16 19:40 J -17552438.76 -17552438.68 -17552438.59 0.2668 0.2100

Mercury -52766-07-25 18:42 J -17551152.83 -17551152.72 -17551152.60 0.2668 0.0129

Mercury -52756-01-18 22:33 J -17547687.70 -17547687.56 -17547687.42 0.2665 0.0652

Mercury -52753-07-27 13:54 J -17546402.03 -17546401.92 -17546401.82 0.2670 0.0838

Mercury -52746-07-21 09:21 J -17543852.19 -17543852.11 -17543852.02 0.2664 0.1809

Mercury -52743-01-22 01:54 J -17542936.56 -17542936.42 -17542936.29 0.2663 0.0850

Mercury -52740-07-30 08:37 J -17541651.22 -17541651.14 -17541651.05 0.2672 0.1740

Mercury -52733-07-23 04:47 J -17539101.41 -17539101.30 -17539101.19 0.2666 0.0858

Mercury -52730-01-25 05:30 J -17538185.34 -17538185.27 -17538185.21 0.2661 0.2389

Mercury -52727-08-02 03:21 J -17536900.38 -17536900.36 -17536900.34 0.2674 0.2628

Mercury -52723-01-17 01:54 J -17535636.53 -17535636.42 -17535636.32 0.2667 0.1843

Venus -52720-04-01 14:23 J -17534466.07 -17534465.90 -17534465.74 0.2625 0.0424

Mercury -52720-07-25 23:45 J -17534350.62 -17534350.51 -17534350.39 0.2668 0.0121

Mercury -52713-07-18 19:11 J -17531800.73 -17531800.70 -17531800.68 0.2663 0.2596

Mercury -52710-01-20 04:33 J -17530885.45 -17530885.31 -17530885.16 0.2665 0.0393

Mercury -52707-07-28 18:42 J -17529599.82 -17529599.72 -17529599.61 0.2670 0.1010

Mercury -52700-07-21 14:23 J -17527049.99 -17527049.90 -17527049.80 0.2665 0.1633

Mercury -52697-01-23 07:54 J -17526134.30 -17526134.17 -17526134.04 0.2663 0.1117

Mercury -52694-07-31 13:40 J -17524849.01 -17524848.93 -17524848.85 0.2672 0.1905

Mercury -52687-07-24 09:49 J -17522299.21 -17522299.09 -17522298.98 0.2667 0.0682

Mercury -52677-01-18 07:54 J -17518834.29 -17518834.17 -17518834.06 0.2667 0.1582

Mercury -52674-07-27 04:47 J -17517548.41 -17517548.30 -17517548.18 0.2668 0.0260

Mercury -52667-07-20 00:13 J -17514998.54 -17514998.49 -17514998.44 0.2663 0.2414

Mercury -52664-01-20 10:47 J -17514083.20 -17514083.05 -17514082.91 0.2665 0.0121

Mercury -52661-07-28 23:45 J -17512797.61 -17512797.51 -17512797.41 0.2670 0.1172

Mercury -52654-07-22 19:25 J -17510247.78 -17510247.69 -17510247.59 0.2665 0.1452

Mercury -52651-01-23 14:09 J -17509332.04 -17509331.91 -17509331.79 0.2663 0.1387

Mercury -52648-07-31 18:42 J -17508046.79 -17508046.72 -17508046.65 0.2672 0.2075

Mercury -52641-07-24 14:37 J -17505497.00 -17505496.89 -17505496.77 0.2667 0.0515

Mercury -52631-01-18 13:54 J -17502032.04 -17502031.92 -17502031.80 0.2667 0.1321

Mercury -52628-07-27 09:49 J -17500746.20 -17500746.09 -17500745.98 0.2669 0.0427

Mercury -52621-07-20 05:16 J -17498196.34 -17498196.28 -17498196.22 0.2664 0.2234

Mercury -52618-01-21 16:47 J -17497280.94 -17497280.80 -17497280.65 0.2664 0.0156

Mercury -52615-07-30 04:47 J -17495995.40 -17495995.30 -17495995.20 0.2671 0.1341

Mercury -52608-07-23 00:28 J -17493445.58 -17493445.48 -17493445.37 0.2665 0.1277

Mercury -52605-01-24 20:09 J -17492529.77 -17492529.66 -17492529.54 0.2662 0.1660

Mercury -52602-08-01 23:30 J -17491244.58 -17491244.52 -17491244.46 0.2673 0.2234

Venus -52599-10-03 04:47 J -17490086.44 -17490086.30 -17490086.15 0.2707 0.0948

Mercury -52598-01-16 17:16 J -17489980.83 -17489980.78 -17489980.73 0.2668 0.2488

Mercury -52595-07-25 19:40 J -17488694.79 -17488694.68 -17488694.56 0.2667 0.0343

Venus -52591-09-30 23:16 J -17487166.55 -17487166.53 -17487166.52 0.2707 0.2687

Mercury -52585-01-19 19:54 J -17485229.80 -17485229.67 -17485229.54 0.2666 0.1060

Mercury -52582-07-28 14:52 J -17483943.99 -17483943.88 -17483943.77 0.2669 0.0598

Mercury -52575-07-21 10:18 J -17481394.14 -17481394.07 -17481394.00 0.2664 0.2053

Mercury -52572-01-21 23:01 J -17480478.68 -17480478.54 -17480478.40 0.2664 0.0414

Mercury -52569-07-30 09:49 J -17479193.19 -17479193.09 -17479193.00 0.2671 0.1508

Mercury -52562-07-24 05:30 J -17476643.37 -17476643.27 -17476643.16 0.2666 0.1099

Mercury -52559-01-25 02:23 J -17475727.50 -17475727.40 -17475727.30 0.2662 0.1933

Mercury -52556-08-02 04:33 J -17474442.36 -17474442.31 -17474442.26 0.2673 0.2399

Mercury -52552-01-16 23:16 J -17473178.60 -17473178.53 -17473178.45 0.2668 0.2234

Mercury -52549-07-26 00:42 J -17471892.58 -17471892.47 -17471892.35 0.2668 0.0177

Mercury -52539-01-20 01:54 J -17468427.56 -17468427.42 -17468427.28 0.2666 0.0806

Mercury -52536-07-28 19:54 J -17467141.78 -17467141.67 -17467141.56 0.2669 0.0772

Mercury -52529-07-21 15:21 J -17464591.94 -17464591.86 -17464591.78 0.2664 0.1874

Mercury -52526-01-23 05:01 J -17463676.43 -17463676.29 -17463676.15 0.2664 0.0682

Mercury -52523-07-31 14:37 J -17462390.98 -17462390.89 -17462390.80 0.2671 0.1673

Mercury -52516-07-24 10:33 J -17459841.17 -17459841.06 -17459840.95 0.2666 0.0924

Mercury -52513-01-26 08:37 J -17458925.22 -17458925.14 -17458925.06 0.2662 0.2205

Mercury -52510-08-03 09:21 J -17457640.13 -17457640.11 -17457640.08 0.2673 0.2561

Mercury -52506-01-18 05:16 J -17456376.37 -17456376.28 -17456376.19 0.2668 0.1982

Mercury -52503-07-27 05:45 J -17455090.37 -17455090.26 -17455090.14 0.2668 0.0051

Mercury -52496-07-20 00:57 J -17452540.46 -17452540.46 -17452540.46 0.2663 0.2659

Mercury -52493-01-21 08:09 J -17451625.31 -17451625.16 -17451625.02 0.2666 0.0545

Mercury -52490-07-30 00:42 J -17450339.57 -17450339.47 -17450339.36 0.2670 0.0935

Mercury -52483-07-22 20:23 J -17447789.74 -17447789.65 -17447789.56 0.2665 0.1693

Mercury -52480-01-23 11:16 J -17446874.17 -17446874.03 -17446873.90 0.2663 0.0945

Venus -52477-04-01 12:13 J -17445710.15 -17445709.99 -17445709.82 0.2626 0.0275

Mercury -52477-07-31 19:40 J -17445588.76 -17445588.68 -17445588.60 0.2672 0.1839

Mercury -52470-07-25 15:35 J -17443038.96 -17443038.85 -17443038.73 0.2666 0.0748

Mercury -52467-01-26 14:37 J -17442122.94 -17442122.89 -17442122.83 0.2661 0.2476

Mercury -52460-01-18 11:16 J -17439574.14 -17439574.03 -17439573.92 0.2667 0.1725

Mercury -52457-07-27 10:47 J -17438288.16 -17438288.05 -17438287.93 0.2668 0.0188

Mercury -52450-07-21 05:59 J -17435738.29 -17435738.25 -17435738.21 0.2663 0.2479

Mercury -52447-01-21 14:09 J -17434823.06 -17434822.91 -17434822.77 0.2665 0.0284

Mercury -52444-07-30 05:45 J -17433537.36 -17433537.26 -17433537.15 0.2670 0.1106

Mercury -52437-07-23 01:25 J -17430987.53 -17430987.44 -17430987.34 0.2665 0.1514

Mercury -52434-01-24 17:16 J -17430071.91 -17430071.78 -17430071.65 0.2663 0.1211

Mercury -52431-08-02 00:42 J -17428786.55 -17428786.47 -17428786.40 0.2672 0.2001

Mercury -52424-07-25 20:37 J -17426236.75 -17426236.64 -17426236.52 0.2667 0.0576

Mercury -52414-01-19 17:16 J -17422771.90 -17422771.78 -17422771.66 0.2667 0.1468

Mercury -52411-07-28 15:49 J -17421485.96 -17421485.84 -17421485.73 0.2668 0.0361

Mercury -52404-07-21 11:01 J -17418936.10 -17418936.04 -17418935.98 0.2663 0.2298

Mercury -52401-01-22 20:09 J -17418020.80 -17418020.66 -17418020.51 0.2665 0.0038

Mercury -52398-07-31 10:47 J -17416735.15 -17416735.05 -17416734.95 0.2670 0.1270

Mercury -52391-07-24 06:28 J -17414185.33 -17414185.23 -17414185.13 0.2665 0.1338

Mercury -52388-01-24 23:30 J -17413269.64 -17413269.52 -17413269.40 0.2663 0.1479

Mercury -52385-08-02 05:30 J -17411984.33 -17411984.27 -17411984.20 0.2672 0.2169

Mercury -52381-01-17 20:52 J -17410720.65 -17410720.63 -17410720.60 0.2669 0.2614

Mercury -52378-07-27 01:40 J -17409434.54 -17409434.43 -17409434.31 0.2667 0.0401

Mercury -52368-01-19 23:30 J -17405969.65 -17405969.52 -17405969.40 0.2667 0.1215

Mercury -52365-07-28 20:52 J -17404683.74 -17404683.63 -17404683.52 0.2669 0.0532

Mercury -52358-07-22 16:04 J -17402133.90 -17402133.83 -17402133.76 0.2664 0.2119

Venus -52356-10-03 08:52 J -17401330.27 -17401330.13 -17401329.99 0.2707 0.1104

Mercury -52355-01-23 02:09 J -17401218.55 -17401218.41 -17401218.26 0.2665 0.0256

Mercury -52352-07-31 15:49 J -17399932.94 -17399932.84 -17399932.75 0.2671 0.1441

Venus -52348-10-01 03:06 J -17398410.42 -17398410.37 -17398410.31 0.2706 0.2529

Mercury -52345-07-24 11:30 J -17397383.12 -17397383.02 -17397382.91 0.2665 0.1162

Mercury -52342-01-26 05:30 J -17396467.38 -17396467.27 -17396467.16 0.2662 0.1747

Mercury -52339-08-03 10:33 J -17395182.11 -17395182.06 -17395182.00 0.2673 0.2328

Mercury -52335-01-18 02:52 J -17393918.44 -17393918.38 -17393918.32 0.2668 0.2367

Mercury -52332-07-27 06:42 J -17392632.33 -17392632.22 -17392632.10 0.2667 0.0224

Mercury -52322-01-21 05:30 J -17389167.41 -17389167.27 -17389167.14 0.2666 0.0950

Mercury -52319-07-30 01:54 J -17387881.54 -17387881.42 -17387881.31 0.2669 0.0706

Mercury -52312-07-22 21:06 J -17385331.70 -17385331.62 -17385331.54 0.2664 0.1941

Mercury -52309-01-24 08:23 J -17384416.29 -17384416.15 -17384416.01 0.2664 0.0511

Mercury -52306-08-01 20:52 J -17383130.73 -17383130.63 -17383130.54 0.2671 0.1607

Mercury -52299-07-25 16:33 J -17380580.92 -17380580.81 -17380580.70 0.2666 0.0985

Mercury -52296-01-26 11:45 J -17379665.11 -17379665.01 -17379664.92 0.2662 0.2014

Mercury -52293-08-03 15:35 J -17378379.89 -17378379.85 -17378379.81 0.2673 0.2493

Mercury -52289-01-19 08:52 J -17377116.22 -17377116.13 -17377116.04 0.2668 0.2112

Mercury -52286-07-28 11:45 J -17375830.13 -17375830.01 -17375829.89 0.2668 0.0052

Mercury -52276-01-21 11:30 J -17372365.16 -17372365.02 -17372364.88 0.2666 0.0695

Mercury -52273-07-30 06:42 J -17371079.33 -17371079.22 -17371079.11 0.2669 0.0873

Mercury -52266-07-24 02:23 J -17368529.49 -17368529.40 -17368529.32 0.2664 0.1761

Mercury -52263-01-24 14:23 J -17367614.04 -17367613.90 -17367613.76 0.2664 0.0777

Mercury -52260-08-02 01:40 J -17366328.51 -17366328.43 -17366328.34 0.2671 0.1770

Mercury -52253-07-25 21:35 J -17363778.71 -17363778.60 -17363778.49 0.2666 0.0811

Mercury -52250-01-27 17:59 J -17362862.83 -17362862.75 -17362862.68 0.2662 0.2288

Mercury -52247-08-04 20:37 J -17361577.65 -17361577.64 -17361577.63 0.2673 0.2653

Mercury -52243-01-19 14:52 J -17360313.98 -17360313.88 -17360313.78 0.2668 0.1862

Mercury -52240-07-28 16:47 J -17359027.92 -17359027.80 -17359027.68 0.2668 0.0124

Venus -52234-04-02 10:04 J -17356954.25 -17356954.08 -17356953.91 0.2626 0.0107

Mercury -52233-07-21 11:45 J -17356478.04 -17356478.01 -17356477.97 0.2663 0.2545

Mercury -52230-01-22 17:30 J -17355562.91 -17355562.77 -17355562.63 0.2666 0.0434

Mercury -52227-07-31 11:45 J -17354277.11 -17354277.01 -17354276.90 0.2670 0.1035

Mercury -52220-07-24 07:25 J -17351727.29 -17351727.19 -17351727.10 0.2665 0.1585

Mercury -52217-01-25 20:37 J -17350811.78 -17350811.64 -17350811.51 0.2663 0.1039

Mercury -52214-08-03 06:42 J -17349526.30 -17349526.22 -17349526.14 0.2672 0.1932

Mercury -52207-07-27 02:37 J -17346976.50 -17346976.39 -17346976.28 0.2666 0.0637

Mercury -52204-01-27 23:59 J -17346060.53 -17346060.50 -17346060.46 0.2661 0.2558

Mercury -52197-01-20 20:52 J -17343511.74 -17343511.63 -17343511.52 0.2667 0.1609

Mercury -52194-07-29 21:49 J -17342225.71 -17342225.59 -17342225.48 0.2668 0.0294

Mercury -52187-07-22 17:01 J -17339675.85 -17339675.79 -17339675.74 0.2663 0.2365

Mercury -52184-01-22 23:30 J -17338760.66 -17338760.52 -17338760.37 0.2665 0.0182

Mercury -52181-07-31 16:47 J -17337474.90 -17337474.80 -17337474.70 0.2670 0.1204

Mercury -52174-07-25 12:28 J -17334925.08 -17334924.98 -17334924.88 0.2665 0.1406

Mercury -52171-01-26 02:37 J -17334009.51 -17334009.39 -17334009.26 0.2663 0.1306

Mercury -52168-08-03 11:45 J -17332724.08 -17332724.01 -17332723.94 0.2672 0.2097

Mercury -52161-07-27 07:40 J -17330174.30 -17330174.18 -17330174.07 0.2667 0.0463

Mercury -52151-01-21 02:52 J -17326709.50 -17326709.38 -17326709.26 0.2667 0.1358

Mercury -52148-07-30 02:52 J -17325423.50 -17325423.38 -17325423.27 0.2668 0.0469

Mercury -52141-07-22 22:04 J -17322873.65 -17322873.58 -17322873.52 0.2663 0.2183

Mercury -52138-01-24 05:45 J -17321958.41 -17321958.26 -17321958.12 0.2665 0.0114

Mercury -52135-08-01 21:49 J -17320672.69 -17320672.59 -17320672.49 0.2670 0.1368

Mercury -52128-07-25 17:30 J -17318122.88 -17318122.77 -17318122.67 0.2665 0.1229

Mercury -52125-01-27 08:52 J -17317207.25 -17317207.13 -17317207.02 0.2663 0.1566

Mercury -52122-08-04 16:33 J -17315921.86 -17315921.81 -17315921.75 0.2672 0.2263

Mercury -52118-01-19 06:28 J -17314658.28 -17314658.23 -17314658.18 0.2669 0.2496

Mercury -52115-07-28 12:42 J -17313372.09 -17313371.97 -17313371.85 0.2667 0.0291

Venus -52113-10-03 12:57 J -17312574.10 -17312573.96 -17312573.83 0.2706 0.1247

Mercury -52105-01-22 08:52 J -17309907.26 -17309907.13 -17309907.00 0.2667 0.1104

Venus -52105-10-01 06:57 J -17309654.27 -17309654.21 -17309654.13 0.2705 0.2381

Mercury -52102-07-31 07:54 J -17308621.29 -17308621.17 -17308621.06 0.2669 0.0637

Mercury -52095-07-24 03:06 J -17306071.45 -17306071.37 -17306071.30 0.2664 0.2005

Mercury -52092-01-24 11:45 J -17305156.16 -17305156.01 -17305155.87 0.2665 0.0348

Mercury -52089-08-02 02:52 J -17303870.48 -17303870.38 -17303870.29 0.2671 0.1538

Mercury -52082-07-26 22:33 J -17301320.67 -17301320.56 -17301320.45 0.2665 0.1053

Mercury -52079-01-27 14:52 J -17300404.98 -17300404.88 -17300404.77 0.2663 0.1834

Mercury -52076-08-04 21:35 J -17299119.65 -17299119.60 -17299119.55 0.2672 0.2419

Mercury -52072-01-19 12:28 J -17297856.06 -17297855.98 -17297855.91 0.2669 0.2249

Mercury -52069-07-28 17:45 J -17296569.88 -17296569.76 -17296569.64 0.2667 0.0120

Mercury -52059-01-22 14:52 J -17293105.01 -17293104.88 -17293104.74 0.2666 0.0846

Mercury -52056-07-31 12:42 J -17291819.08 -17291818.97 -17291818.86 0.2669 0.0807

Mercury -52049-07-24 08:09 J -17289269.25 -17289269.16 -17289269.08 0.2664 0.1827

Mercury -52046-01-25 17:45 J -17288353.90 -17288353.76 -17288353.62 0.2664 0.0603

Mercury -52043-08-03 07:40 J -17287068.26 -17287068.18 -17287068.09 0.2671 0.1701

Mercury -52036-07-27 03:35 J -17284518.46 -17284518.35 -17284518.24 0.2666 0.0884

Mercury -52033-01-28 21:06 J -17283602.71 -17283602.62 -17283602.53 0.2662 0.2098

Mercury -52030-08-06 02:37 J -17282317.42 -17282317.39 -17282317.37 0.2673 0.2584

Mercury -52026-01-20 18:28 J -17281053.82 -17281053.73 -17281053.64 0.2668 0.1995

Mercury -52023-07-29 22:47 J -17279767.67 -17279767.55 -17279767.43 0.2668 0.0064

Mercury -52016-07-22 17:45 J -17277217.78 -17277217.76 -17277217.74 0.2662 0.2614

Mercury -52013-01-23 20:52 J -17276302.77 -17276302.63 -17276302.49 0.2666 0.0594

Mercury -52010-08-01 17:45 J -17275016.86 -17275016.76 -17275016.65 0.2669 0.0973

Mercury -52003-07-25 13:11 J -17272467.04 -17272466.95 -17272466.86 0.2664 0.1650

52ND MILLENNIUM BCE

This is a list of transits visible from Earth in the 52nd millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-52000-01-25 23:59 J	-17271551.64	-17271551.50	-17271551.37	0.2664	0.0870		
Mercury	-51997-08-03 12:42 J	-17270266.05	-17270265.97	-17270265.89	0.2671	0.1867		
Venus	-51991-04-02 07:54 J	-17268198.33	-17268198.17	-17268198.00	0.2627	0.0081		
Mercury	-51990-07-28 08:37 J	-17267716.26	-17267716.14	-17267716.03	0.2666	0.0707		
Mercury	-51987-01-29 03:21 J	-17266800.43	-17266800.36	-17266800.30	0.2662	0.2369		
Mercury	-51980-01-21 00:28 J	-17264251.59	-17264251.48	-17264251.38	0.2668	0.1752		
Mercury	-51977-07-30 03:49 J	-17262965.46	-17262965.34	-17262965.23	0.2668	0.0235		
Mercury	-51970-07-23 22:47 J	-17260415.60	-17260415.55	-17260415.51	0.2663	0.2430		
Mercury	-51967-01-24 03:06 J	-17259500.52	-17259500.37	-17259500.23	0.2666	0.0335		
Mercury	-51964-08-01 22:47 J	-17258214.65	-17258214.55	-17258214.44	0.2670	0.1134		
Mercury	-51957-07-25 18:13 J	-17255664.84	-17255664.74	-17255664.64	0.2664	0.1473		
Mercury	-51954-01-27 05:59 J	-17254749.38	-17254749.25	-17254749.12	0.2664	0.1131		
Mercury	-51951-08-04 17:45 J	-17253463.83	-17253463.76	-17253463.69	0.2672	0.2028		
Mercury	-51944-07-28 13:40 J	-17250914.05	-17250913.93	-17250913.82	0.2666	0.0537		
Mercury	-51941-01-30 09:21 J	-17249998.12	-17249998.11	-17249998.09	0.2662	0.2636		
Mercury	-51934-01-22 06:28 J	-17247449.35	-17247449.23	-17247449.12	0.2667	0.1499		
Mercury	-51931-07-31 08:52 J	-17246163.25	-17246163.13	-17246163.02	0.2668	0.0400		
Mercury	-51924-07-24 03:49 J	-17243613.40	-17243613.34	-17243613.28	0.2663	0.2253		
Mercury	-51921-01-25 09:06 J	-17242698.27	-17242698.12	-17242697.98	0.2665	0.0103		
Mercury	-51918-08-03 03:49 J	-17241412.44	-17241412.34	-17241412.24	0.2670	0.1302		
Mercury	-51911-07-26 23:16 J	-17238862.63	-17238862.53	-17238862.43	0.2665	0.1295		
Mercury	-51908-01-27 11:59 J	-17237947.12	-17237947.00	-17237946.87	0.2663	0.1398		

Mercury -51905-08-04 22:47 J -17236661.62 -17236661.55 -17236661.49 0.2672 0.2191

Mercury -51901-01-20 10:04 J -17235398.10 -17235398.08 -17235398.06 0.2669 0.2628

Mercury -51898-07-29 18:42 J -17234111.84 -17234111.72 -17234111.61 0.2667 0.0365

Mercury -51888-01-22 12:28 J -17230647.11 -17230646.98 -17230646.86 0.2667 0.1248

Mercury -51885-07-31 13:40 J -17229361.04 -17229360.93 -17229360.81 0.2668 0.0573

Mercury -51878-07-25 08:52 J -17226811.20 -17226811.13 -17226811.06 0.2663 0.2071

Mercury -51875-01-25 15:06 J -17225896.01 -17225895.87 -17225895.73 0.2665 0.0183

Mercury -51872-08-03 08:52 J -17224610.23 -17224610.13 -17224610.04 0.2670 0.1466

Venus -51870-10-04 16:47 J -17223817.93 -17223817.80 -17223817.67 0.2705 0.1397

Mercury -51865-07-27 04:18 J -17222060.42 -17222060.32 -17222060.21 0.2665 0.1123

Mercury -51862-01-28 18:13 J -17221144.85 -17221144.74 -17221144.63 0.2663 0.1654

Venus -51862-10-02 11:01 J -17220898.12 -17220898.04 -17220897.95 0.2705 0.2220

Mercury -51859-08-06 03:35 J -17219859.40 -17219859.35 -17219859.29 0.2672 0.2352

Mercury -51855-01-20 16:04 J -17218595.89 -17218595.83 -17218595.77 0.2669 0.2381

Mercury -51852-07-29 23:45 J -17217309.63 -17217309.51 -17217309.40 0.2667 0.0199

Mercury -51842-01-23 18:28 J -17213844.87 -17213844.73 -17213844.60 0.2667 0.0999

Mercury -51839-08-01 18:42 J -17212558.83 -17212558.72 -17212558.60 0.2669 0.0738

Mercury -51832-07-25 13:54 J -17210009.00 -17210008.92 -17210008.84 0.2664 0.1896

Mercury -51829-01-26 21:06 J -17209093.76 -17209093.62 -17209093.47 0.2665 0.0440

Mercury -51826-08-04 13:40 J -17207808.02 -17207807.93 -17207807.83 0.2671 0.1634

Mercury -51819-07-28 09:21 J -17205258.22 -17205258.11 -17205258.00 0.2665 0.0948

Mercury -51816-01-29 00:28 J -17204342.58 -17204342.48 -17204342.38 0.2663 0.1922

Mercury -51813-08-06 08:37 J -17203057.18 -17203057.14 -17203057.10 0.2672 0.2510

Mercury -51809-01-21 21:49 J -17201793.67 -17201793.59 -17201793.50 0.2669 0.2141

Mercury -51806-07-31 04:47 J -17200507.42 -17200507.30 -17200507.19 0.2667 0.0084

Mercury -51796-01-24 00:28 J -17197042.62 -17197042.48 -17197042.35 0.2666 0.0745

Mercury -51793-08-01 23:45 J -17195756.62 -17195756.51 -17195756.40 0.2669 0.0899

Mercury -51786-07-26 18:57 J -17193206.79 -17193206.71 -17193206.62 0.2664 0.1719

Mercury -51783-01-27 03:21 J -17192291.50 -17192291.36 -17192291.22 0.2664 0.0702

Mercury -51780-08-04 18:42 J -17191005.80 -17191005.72 -17191005.63 0.2671 0.1795

Mercury -51773-07-28 14:23 J -17188456.01 -17188455.90 -17188455.78 0.2666 0.0776

Mercury -51770-01-30 06:28 J -17187540.31 -17187540.23 -17187540.15 0.2662 0.2180

Mercury -51767-08-07 13:40 J -17186254.93 -17186254.93 -17186254.93 0.2673 0.2672

Mercury -51763-01-22 04:04 J -17184991.43 -17184991.33 -17184991.23 0.2668 0.1887

Mercury -51760-07-31 09:49 J -17183705.21 -17183705.09 -17183704.98 0.2668 0.0177

Mercury -51753-07-24 04:33 J -17181155.35 -17181155.31 -17181155.27 0.2662 0.2501

Mercury -51750-01-25 06:28 J -17180240.37 -17180240.23 -17180240.09 0.2666 0.0492

Venus -51748-04-02 05:59 J -17179442.41 -17179442.25 -17179442.08 0.2628 0.0186

Mercury -51747-08-03 04:47 J -17178954.40 -17178954.30 -17178954.19 0.2669 0.1066

Mercury -51740-07-27 00:13 J -17176404.59 -17176404.49 -17176404.40 0.2664 0.1541

Mercury -51737-01-28 09:21 J -17175489.25 -17175489.11 -17175488.98 0.2664 0.0955

Mercury -51734-08-05 23:45 J -17174203.59 -17174203.51 -17174203.43 0.2671 0.1957

Mercury -51727-07-29 19:25 J -17171653.80 -17171653.69 -17171653.57 0.2666 0.0606

Mercury -51724-01-30 12:42 J -17170738.03 -17170737.97 -17170737.92 0.2662 0.2450

Mercury -51717-01-23 10:04 J -17168189.19 -17168189.08 -17168188.97 0.2668 0.1637

Mercury -51714-08-01 14:37 J -17166903.00 -17166902.89 -17166902.77 0.2668 0.0342

Mercury -51707-07-25 09:35 J -17164353.15 -17164353.10 -17164353.04 0.2663 0.2319

Mercury -51704-01-25 12:28 J -17163438.12 -17163437.98 -17163437.83 0.2666 0.0237

Mercury -51701-08-03 09:49 J -17162152.19 -17162152.09 -17162151.99 0.2670 0.1232

Mercury -51694-07-28 05:16 J -17159602.38 -17159602.28 -17159602.18 0.2664 0.1367

Mercury -51691-01-28 15:21 J -17158686.99 -17158686.86 -17158686.73 0.2664 0.1218

Mercury -51688-08-06 04:47 J -17157401.37 -17157401.30 -17157401.23 0.2672 0.2118

Mercury -51681-07-30 00:28 J -17154851.59 -17154851.48 -17154851.36 0.2666 0.0436

Mercury -51671-01-23 16:04 J -17151386.95 -17151386.83 -17151386.71 0.2667 0.1388

Mercury -51668-08-01 19:40 J -17150100.79 -17150100.68 -17150100.56 0.2668 0.0504

Mercury -51661-07-25 14:37 J -17147550.95 -17147550.89 -17147550.82 0.2663 0.2145

Mercury -51658-01-26 18:28 J -17146635.87 -17146635.73 -17146635.58 0.2665 0.0072

Mercury -51655-08-04 14:52 J -17145349.98 -17145349.88 -17145349.78 0.2670 0.1396

Mercury -51648-07-28 10:18 J -17142800.18 -17142800.07 -17142799.97 0.2665 0.1190

Mercury -51645-01-29 21:35 J -17141884.72 -17141884.60 -17141884.48 0.2663 0.1481

Mercury -51642-08-07 09:49 J -17140599.15 -17140599.09 -17140599.04 0.2672 0.2282

Mercury -51638-01-21 19:40 J -17139335.72 -17139335.68 -17139335.63 0.2669 0.2512

Mercury -51635-07-31 05:30 J -17138049.38 -17138049.27 -17138049.15 0.2667 0.0267

Venus -51627-10-04 20:52 J -17135061.75 -17135061.63 -17135061.50 0.2705 0.1574

Mercury -51625-01-24 22:04 J -17134584.71 -17134584.58 -17134584.46 0.2667 0.1145

Mercury -51622-08-03 00:42 J -17133298.58 -17133298.47 -17133298.36 0.2668 0.0661

Venus -51619-10-02 15:06 J -17132141.97 -17132141.87 -17132141.77 0.2704 0.2056

Mercury -51615-07-26 19:54 J -17130748.75 -17130748.67 -17130748.59 0.2663 0.1963

Mercury -51612-01-27 00:42 J -17129833.62 -17129833.47 -17129833.33 0.2665 0.0287

Mercury -51609-08-04 19:54 J -17128547.77 -17128547.67 -17128547.58 0.2670 0.1562

Mercury -51602-07-29 15:21 J -17125997.97 -17125997.86 -17125997.75 0.2665 0.1016

Mercury -51599-01-30 03:35 J -17125082.46 -17125082.35 -17125082.24 0.2663 0.1740

Mercury -51596-08-07 14:37 J -17123796.93 -17123796.89 -17123796.84 0.2672 0.2443

Mercury -51592-01-22 01:40 J -17122533.50 -17122533.43 -17122533.36 0.2669 0.2267

Mercury -51589-07-31 10:33 J -17121247.17 -17121247.06 -17121246.94 0.2667 0.0105

Mercury -51579-01-25 03:49 J -17117782.47 -17117782.34 -17117782.20 0.2667 0.0895

Mercury -51576-08-03 05:45 J -17116496.37 -17116496.26 -17116496.15 0.2669 0.0829

Mercury -51569-07-27 00:57 J -17113946.55 -17113946.46 -17113946.37 0.2664 0.1786

Mercury -51566-01-28 06:42 J -17113031.37 -17113031.22 -17113031.08 0.2665 0.0534

Mercury -51563-08-06 00:42 J -17111745.55 -17111745.47 -17111745.38 0.2670 0.1726

Mercury -51556-07-29 20:23 J -17109195.76 -17109195.65 -17109195.54 0.2665 0.0839

Mercury -51553-01-31 09:49 J -17108280.19 -17108280.09 -17108280.00 0.2663 0.2004

Mercury -51550-08-08 19:40 J -17106994.70 -17106994.68 -17106994.66 0.2672 0.2599

Mercury -51546-01-23 07:40 J -17105731.27 -17105731.18 -17105731.09 0.2669 0.2023

Mercury -51543-08-01 15:35 J -17104444.96 -17104444.85 -17104444.73 0.2667 0.0100

Mercury -51536-07-25 10:18 J -17101895.09 -17101895.07 -17101895.04 0.2662 0.2568

Mercury -51533-01-26 10:04 J -17100980.22 -17100980.08 -17100979.94 0.2666 0.0643

Mercury -51530-08-04 10:47 J -17099694.16 -17099694.05 -17099693.94 0.2669 0.0994

Mercury -51523-07-28 05:59 J -17097144.34 -17097144.25 -17097144.16 0.2664 0.1608

Mercury -51520-01-28 12:42 J -17096229.11 -17096228.97 -17096228.83 0.2664 0.0789

Mercury -51517-08-06 05:45 J -17094943.34 -17094943.26 -17094943.18 0.2671 0.1885

Mercury -51510-07-31 01:25 J -17092393.55 -17092393.44 -17092393.33 0.2666 0.0670

Mercury -51507-01-31 15:49 J -17091477.91 -17091477.84 -17091477.76 0.2662 0.2259

Venus -51505-04-02 04:04 J -17090686.49 -17090686.33 -17090686.17 0.2628 0.0310

Mercury -51500-01-23 13:40 J -17088929.04 -17088928.93 -17088928.83 0.2668 0.1779

Mercury -51497-08-01 20:37 J -17087642.75 -17087642.64 -17087642.52 0.2668 0.0266

Mercury -51490-07-26 15:21 J -17085092.90 -17085092.86 -17085092.81 0.2662 0.2392

Mercury -51487-01-26 15:49 J -17084177.98 -17084177.84 -17084177.69 0.2666 0.0399

Mercury -51484-08-04 15:49 J -17082891.94 -17082891.84 -17082891.74 0.2669 0.1160

Mercury -51477-07-28 11:01 J -17080342.14 -17080342.04 -17080341.94 0.2664 0.1435

Mercury -51474-01-29 18:42 J -17079426.85 -17079426.72 -17079426.58 0.2664 0.1046

Mercury -51471-08-07 10:47 J -17078141.12 -17078141.05 -17078140.98 0.2671 0.2047

Mercury -51464-07-31 06:28 J -17075591.34 -17075591.23 -17075591.11 0.2666 0.0494

Mercury -51461-02-01 22:04 J -17074675.63 -17074675.58 -17074675.54 0.2662 0.2525

Mercury -51454-01-24 19:25 J -17072126.80 -17072126.69 -17072126.57 0.2668 0.1536

Mercury -51451-08-03 01:40 J -17070840.54 -17070840.43 -17070840.31 0.2668 0.0425

Mercury -51444-07-26 20:37 J -17068290.71 -17068290.64 -17068290.58 0.2663 0.2209

Mercury -51441-01-27 22:04 J -17067375.73 -17067375.58 -17067375.44 0.2666 0.0149

Mercury -51438-08-05 20:52 J -17066089.73 -17066089.63 -17066089.53 0.2670 0.1325

Mercury -51431-07-29 16:04 J -17063539.93 -17063539.83 -17063539.72 0.2664 0.1259

Mercury -51428-01-30 00:57 J -17062624.59 -17062624.46 -17062624.34 0.2664 0.1304

Mercury -51425-08-07 15:49 J -17061338.90 -17061338.84 -17061338.78 0.2672 0.2209

Mercury -51421-01-22 23:30 J -17060075.54 -17060075.52 -17060075.50 0.2670 0.2635

Mercury -51418-08-01 11:30 J -17058789.14 -17058789.02 -17058788.90 0.2666 0.0327

Mercury -51408-01-25 01:25 J -17055324.56 -17055324.44 -17055324.31 0.2668 0.1287

Mercury -51405-08-03 06:42 J -17054038.33 -17054038.22 -17054038.10 0.2668 0.0594

Mercury -51398-07-28 01:40 J -17051488.51 -17051488.43 -17051488.36 0.2663 0.2035

Mercury -51395-01-28 04:04 J -17050573.48 -17050573.33 -17050573.19 0.2666 0.0122

Mercury -51392-08-06 01:54 J -17049287.52 -17049287.42 -17049287.33 0.2670 0.1490

Mercury -51385-07-29 21:06 J -17046737.72 -17046737.62 -17046737.51 0.2665 0.1087

Venus -51384-10-05 00:42 J -17046305.59 -17046305.47 -17046305.35 0.2704 0.1703

Mercury -51382-01-31 06:57 J -17045822.33 -17045822.21 -17045822.09 0.2664 0.1558

Mercury -51379-08-08 20:37 J -17044536.69 -17044536.64 -17044536.58 0.2672 0.2371

Venus -51376-10-02 18:57 J -17043385.82 -17043385.71 -17043385.60 0.2704 0.1894

Mercury -51375-01-23 05:16 J -17043273.34 -17043273.28 -17043273.22 0.2669 0.2396

Mercury -51372-08-01 16:33 J -17041986.93 -17041986.81 -17041986.69 0.2666 0.0155

Mercury -51362-01-26 07:40 J -17038522.32 -17038522.18 -17038522.05 0.2667 0.1038

Mercury -51359-08-04 11:45 J -17037236.12 -17037236.01 -17037235.90 0.2668 0.0756

Mercury -51352-07-28 06:42 J -17034686.30 -17034686.22 -17034686.13 0.2663 0.1856

Mercury -51349-01-29 10:04 J -17033771.22 -17033771.08 -17033770.94 0.2665 0.0372

Mercury -51346-08-07 06:42 J -17032485.31 -17032485.22 -17032485.13 0.2670 0.1655

Mercury -51339-07-31 02:09 J -17029935.52 -17029935.41 -17029935.30 0.2665 0.0917

Mercury -51336-01-31 12:57 J -17029020.06 -17029019.96 -17029019.85 0.2663 0.1819

Mercury -51333-08-09 01:40 J -17027734.46 -17027734.43 -17027734.39 0.2672 0.2529

Mercury -51329-01-24 11:16 J -17026471.11 -17026471.03 -17026470.95 0.2669 0.2156

Mercury -51326-08-02 21:35 J -17025184.72 -17025184.60 -17025184.48 0.2667 0.0020

Mercury -51319-07-26 16:04 J -17022634.84 -17022634.83 -17022634.81 0.2662 0.2640

Mercury -51316-01-26 13:25 J -17021720.07 -17021719.94 -17021719.80 0.2667 0.0792

Mercury -51313-08-04 16:47 J -17020433.91 -17020433.80 -17020433.69 0.2669 0.0924

Mercury -51306-07-29 11:45 J -17017884.10 -17017884.01 -17017883.92 0.2664 0.1684

Mercury -51303-01-29 16:04 J -17016968.97 -17016968.83 -17016968.69 0.2665 0.0627

Mercury -51300-08-07 11:45 J -17015683.09 -17015683.01 -17015682.92 0.2670 0.1814

Mercury -51293-07-31 07:11 J -17013133.31 -17013133.20 -17013133.08 0.2665 0.0747

Mercury -51290-02-01 19:11 J -17012217.79 -17012217.70 -17012217.61 0.2663 0.2081

Mercury -51283-01-24 17:16 J -17009668.88 -17009668.78 -17009668.69 0.2669 0.1916

Mercury -51280-08-03 02:37 J -17008382.51 -17008382.39 -17008382.27 0.2667 0.0182

Mercury -51273-07-26 21:21 J -17005832.65 -17005832.61 -17005832.57 0.2662 0.2459

Mercury -51270-01-27 19:25 J -17004917.83 -17004917.69 -17004917.55 0.2667 0.0547

Mercury -51267-08-05 21:49 J -17003631.70 -17003631.59 -17003631.49 0.2669 0.1087

Venus -51262-04-03 02:09 J -17001930.57 -17001930.41 -17001930.24 0.2629 0.0439

Mercury -51260-07-29 16:47 J -17001081.89 -17001081.80 -17001081.70 0.2664 0.1507
 Mercury -51257-01-30 22:04 J -17000166.71 -17000166.58 -17000166.44 0.2664 0.0881
 Mercury -51254-08-08 16:47 J -16998880.87 -16998880.80 -16998880.72 0.2671 0.1977
 Mercury -51247-08-01 12:13 J -16996331.10 -16996330.99 -16996330.87 0.2666 0.0580
 Mercury -51244-02-02 01:11 J -16995415.51 -16995415.45 -16995415.38 0.2662 0.2338
 Mercury -51237-01-25 23:16 J -16992866.64 -16992866.53 -16992866.42 0.2668 0.1675
 Mercury -51234-08-04 07:40 J -16991580.30 -16991580.18 -16991580.06 0.2668 0.0350
 Mercury -51227-07-28 02:23 J -16989030.46 -16989030.40 -16989030.34 0.2662 0.2282
 Mercury -51224-01-28 01:25 J -16988115.58 -16988115.44 -16988115.30 0.2666 0.0299
 Mercury -51221-08-06 02:52 J -16986829.48 -16986829.38 -16986829.28 0.2669 0.1254
 Mercury -51214-07-30 22:04 J -16984279.68 -16984279.58 -16984279.48 0.2664 0.1331
 Mercury -51211-01-31 04:18 J -16983364.45 -16983364.32 -16983364.19 0.2664 0.1129
 Mercury -51208-08-08 21:49 J -16982078.66 -16982078.59 -16982078.52 0.2671 0.2134
 Mercury -51201-08-01 17:30 J -16979528.89 -16979528.77 -16979528.66 0.2666 0.0402
 Mercury -51198-02-03 07:25 J -16978613.22 -16978613.19 -16978613.16 0.2662 0.2599
 Mercury -51191-01-26 05:01 J -16976064.41 -16976064.29 -16976064.17 0.2668 0.1430
 Mercury -51188-08-04 12:42 J -16974778.09 -16974777.97 -16974777.86 0.2668 0.0518
 Mercury -51181-07-28 07:25 J -16972228.26 -16972228.19 -16972228.12 0.2663 0.2105
 Mercury -51178-01-29 07:25 J -16971313.33 -16971313.19 -16971313.04 0.2666 0.0081
 Mercury -51175-08-07 07:54 J -16970027.27 -16970027.17 -16970027.08 0.2670 0.1419
 Mercury -51168-07-31 03:06 J -16967477.48 -16967477.37 -16967477.27 0.2664 0.1158
 Mercury -51165-02-01 10:18 J -16966562.19 -16966562.07 -16966561.95 0.2664 0.1383
 Mercury -51162-08-10 02:52 J -16965276.44 -16965276.38 -16965276.33 0.2671 0.2295
 Mercury -51158-01-24 09:06 J -16964013.16 -16964013.12 -16964013.08 0.2670 0.2526
 Mercury -51155-08-02 22:33 J -16962726.68 -16962726.56 -16962726.45 0.2666 0.0237
 Mercury -51145-01-27 11:01 J -16959262.17 -16959262.04 -16959261.91 0.2668 0.1189
 Mercury -51142-08-05 17:45 J -16957975.87 -16957975.76 -16957975.65 0.2668 0.0687
 Venus -51141-10-05 04:47 J -16957549.41 -16957549.30 -16957549.19 0.2704 0.1890
 Mercury -51135-07-29 12:28 J -16955426.06 -16955425.98 -16955425.90 0.2663 0.1931
 Venus -51133-10-02 22:47 J -16954629.66 -16954629.55 -16954629.43 0.2703 0.1740

Mercury -51132-01-29 13:25 J -16954511.08 -16954510.94 -16954510.79 0.2666 0.0210

Mercury -51129-08-07 12:42 J -16953225.06 -16953224.97 -16953224.87 0.2670 0.1580

Mercury -51122-08-01 08:09 J -16950675.27 -16950675.16 -16950675.05 0.2665 0.0985

Mercury -51119-02-01 16:18 J -16949759.93 -16949759.82 -16949759.70 0.2664 0.1639

Mercury -51116-08-10 07:40 J -16948474.22 -16948474.18 -16948474.13 0.2672 0.2455

Mercury -51112-01-24 14:52 J -16947210.95 -16947210.88 -16947210.81 0.2669 0.2290

Mercury -51109-08-03 03:35 J -16945924.47 -16945924.35 -16945924.24 0.2666 0.0094

Mercury -51099-01-27 17:01 J -16942459.92 -16942459.79 -16942459.65 0.2667 0.0941

Mercury -51096-08-05 22:47 J -16941173.66 -16941173.55 -16941173.44 0.2668 0.0850

Mercury -51089-07-29 17:45 J -16938623.85 -16938623.76 -16938623.68 0.2663 0.1756

Mercury -51086-01-30 19:40 J -16937708.83 -16937708.68 -16937708.54 0.2665 0.0460

Mercury -51083-08-08 17:45 J -16936422.84 -16936422.76 -16936422.67 0.2670 0.1744

Mercury -51076-08-01 13:11 J -16933873.06 -16933872.95 -16933872.84 0.2665 0.0813

Mercury -51073-02-02 22:18 J -16932957.67 -16932957.57 -16932957.46 0.2663 0.1894

Mercury -51070-08-11 12:42 J -16931671.99 -16931671.97 -16931671.95 0.2672 0.2613

Mercury -51066-01-25 20:52 J -16930408.72 -16930408.63 -16930408.54 0.2669 0.2049

Mercury -51063-08-04 08:37 J -16929122.26 -16929122.14 -16929122.03 0.2667 0.0138

Mercury -51056-07-28 03:06 J -16926572.41 -16926572.37 -16926572.34 0.2662 0.2536

Mercury -51053-01-28 23:01 J -16925657.68 -16925657.54 -16925657.40 0.2667 0.0695

Mercury -51050-08-07 03:49 J -16924371.45 -16924371.34 -16924371.24 0.2669 0.1019

Mercury -51043-07-30 22:47 J -16921821.65 -16921821.55 -16921821.46 0.2664 0.1579

Mercury -51040-01-31 01:40 J -16920906.57 -16920906.43 -16920906.29 0.2665 0.0708

Mercury -51037-08-08 22:47 J -16919620.63 -16919620.55 -16919620.47 0.2670 0.1901

Mercury -51030-08-02 18:13 J -16917070.85 -16917070.74 -16917070.62 0.2665 0.0641

Mercury -51027-02-03 04:33 J -16916155.39 -16916155.31 -16916155.23 0.2663 0.2152

Mercury -51020-01-26 02:52 J -16913606.48 -16913606.38 -16913606.28 0.2669 0.1808

Venus -51019-04-03 00:13 J -16913174.65 -16913174.49 -16913174.33 0.2630 0.0578

Mercury -51017-08-04 13:40 J -16912320.05 -16912319.93 -16912319.82 0.2667 0.0292

Mercury -51010-07-29 08:09 J -16909770.21 -16909770.16 -16909770.11 0.2662 0.2356

Mercury -51007-01-29 05:01 J -16908855.43 -16908855.29 -16908855.15 0.2667 0.0449

Mercury -51004-08-07 08:52 J -16907569.24 -16907569.13 -16907569.03 0.2669 0.1182

51ST MILLENNIUM BCE

This is a list of transits visible from Earth in the 51st millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-50997-07-31 03:49 J	-16905019.44	-16905019.34	-16905019.24	0.2664	0.1404		
Mercury	-50994-02-01 07:40 J	-16904104.31	-16904104.18	-16904104.05	0.2665	0.0960		
Mercury	-50991-08-10 03:49 J	-16902818.41	-16902818.34	-16902818.27	0.2671	0.2061		
Mercury	-50984-08-02 23:16 J	-16900268.65	-16900268.53	-16900268.41	0.2666	0.0473		
Mercury	-50981-02-04 10:33 J	-16899353.11	-16899353.06	-16899353.00	0.2663	0.2410		
Mercury	-50974-01-27 08:52 J	-16896804.25	-16896804.13	-16896804.02	0.2668	0.1573		
Mercury	-50971-08-05 18:42 J	-16895517.84	-16895517.72	-16895517.61	0.2667	0.0452		
Mercury	-50964-07-29 13:11 J	-16892968.01	-16892967.95	-16892967.88	0.2662	0.2179		
Mercury	-50961-01-30 11:01 J	-16892053.18	-16892053.04	-16892052.90	0.2666	0.0203		
Mercury	-50958-08-08 13:40 J	-16890767.02	-16890766.93	-16890766.83	0.2669	0.1347		
Mercury	-50951-08-01 08:52 J	-16888217.23	-16888217.13	-16888217.02	0.2664	0.1232		
Mercury	-50948-02-01 13:40 J	-16887302.06	-16887301.93	-16887301.80	0.2664	0.1213		
Mercury	-50945-08-10 08:52 J	-16886016.19	-16886016.13	-16886016.07	0.2671	0.2220		
Mercury	-50941-01-25 12:42 J	-16884752.98	-16884752.97	-16884752.96	0.2670	0.2660		
Mercury	-50938-08-04 04:18 J	-16883466.44	-16883466.32	-16883466.20	0.2666	0.0301		
Mercury	-50928-01-27 14:37 J	-16880002.01	-16880001.89	-16880001.76	0.2668	0.1332		
Mercury	-50925-08-05 23:30 J	-16878715.63	-16878715.52	-16878715.40	0.2668	0.0617		
Mercury	-50918-07-30 18:28 J	-16876165.81	-16876165.73	-16876165.66	0.2663	0.2004		

Mercury -50915-01-30 17:01 J -16875250.93 -16875250.79 -16875250.65 0.2666 0.0049

Mercury -50912-08-08 18:42 J -16873964.81 -16873964.72 -16873964.62 0.2670 0.1505

Mercury -50905-08-01 13:54 J -16871415.03 -16871414.92 -16871414.81 0.2664 0.1058

Mercury -50902-02-02 19:40 J -16870499.80 -16870499.68 -16870499.56 0.2664 0.1462

Mercury -50899-08-11 13:54 J -16869213.97 -16869213.92 -16869213.87 0.2671 0.2382

Venus -50898-10-06 08:23 J -16868793.25 -16868793.15 -16868793.05 0.2703 0.2017

Mercury -50895-01-25 18:42 J -16867950.78 -16867950.72 -16867950.66 0.2670 0.2421

Mercury -50892-08-04 09:21 J -16866664.23 -16866664.11 -16866663.99 0.2666 0.0136

Venus -50890-10-04 02:37 J -16865873.52 -16865873.39 -16865873.27 0.2702 0.1585

Mercury -50882-01-28 20:37 J -16863199.77 -16863199.64 -16863199.51 0.2668 0.1091

Mercury -50879-08-07 04:47 J -16861913.42 -16861913.30 -16861913.19 0.2668 0.0783

Mercury -50872-07-30 23:30 J -16859363.61 -16859363.52 -16859363.44 0.2663 0.1827

Mercury -50869-01-31 23:01 J -16858448.68 -16858448.54 -16858448.40 0.2666 0.0289

Mercury -50866-08-09 23:45 J -16857162.60 -16857162.51 -16857162.42 0.2670 0.1665

Mercury -50859-08-02 18:57 J -16854612.82 -16854612.71 -16854612.59 0.2665 0.0890

Mercury -50856-02-03 01:54 J -16853697.53 -16853697.42 -16853697.31 0.2664 0.1715

Mercury -50853-08-11 18:42 J -16852411.75 -16852411.72 -16852411.68 0.2672 0.2533

Mercury -50849-01-27 00:42 J -16851148.55 -16851148.47 -16851148.40 0.2669 0.2188

Mercury -50846-08-05 14:23 J -16849862.02 -16849861.90 -16849861.78 0.2666 0.0060

Mercury -50839-07-29 08:52 J -16847312.15 -16847312.13 -16847312.11 0.2662 0.2609

Mercury -50836-01-29 02:37 J -16846397.52 -16846397.39 -16846397.26 0.2667 0.0846

Mercury -50833-08-07 09:35 J -16845111.20 -16845111.10 -16845110.99 0.2668 0.0944

Mercury -50826-08-01 04:33 J -16842561.40 -16842561.31 -16842561.22 0.2663 0.1653

Mercury -50823-02-01 05:01 J -16841646.43 -16841646.29 -16841646.15 0.2665 0.0537

Mercury -50820-08-10 04:47 J -16840360.38 -16840360.30 -16840360.22 0.2670 0.1825

Mercury -50813-08-02 23:59 J -16837810.61 -16837810.50 -16837810.38 0.2665 0.0720

Mercury -50810-02-04 07:54 J -16836895.27 -16836895.17 -16836895.08 0.2663 0.1966

Mercury -50803-01-27 06:28 J -16834346.32 -16834346.23 -16834346.13 0.2669 0.1948

Mercury -50800-08-05 19:25 J -16833059.80 -16833059.69 -16833059.57 0.2667 0.0215

Mercury -50793-07-29 13:54 J -16830509.97 -16830509.92 -16830509.88 0.2662 0.2431

Mercury -50790-01-30 08:37 J -16829595.28 -16829595.14 -16829595.00 0.2667 0.0607

Mercury -50787-08-08 14:37 J -16828308.99 -16828308.89 -16828308.78 0.2669 0.1111

Mercury -50780-08-01 09:35 J -16825759.20 -16825759.10 -16825759.00 0.2664 0.1479

Mercury -50777-02-02 11:01 J -16824844.18 -16824844.04 -16824843.90 0.2665 0.0789

Venus -50776-04-02 22:18 J -16824418.73 -16824418.57 -16824418.41 0.2630 0.0704

Mercury -50774-08-11 09:49 J -16823558.17 -16823558.09 -16823558.02 0.2670 0.1986

Mercury -50767-08-04 05:01 J -16821008.40 -16821008.29 -16821008.17 0.2665 0.0555

Mercury -50764-02-04 13:54 J -16820093.00 -16820092.92 -16820092.84 0.2663 0.2220

Mercury -50757-01-28 12:28 J -16817544.09 -16817543.98 -16817543.87 0.2669 0.1709

Mercury -50754-08-07 00:28 J -16816257.59 -16816257.48 -16816257.36 0.2667 0.0373

Mercury -50747-07-30 18:57 J -16813707.77 -16813707.71 -16813707.65 0.2662 0.2254

Mercury -50744-01-30 14:37 J -16812793.03 -16812792.89 -16812792.75 0.2667 0.0355

Mercury -50741-08-08 19:40 J -16811506.78 -16811506.68 -16811506.57 0.2669 0.1267

Mercury -50734-08-02 14:37 J -16808956.99 -16808956.89 -16808956.78 0.2664 0.1307

Mercury -50731-02-02 17:01 J -16808041.92 -16808041.79 -16808041.65 0.2665 0.1039

Mercury -50728-08-11 14:52 J -16806755.95 -16806755.88 -16806755.82 0.2671 0.2147

Mercury -50721-08-04 10:18 J -16804206.19 -16804206.07 -16804205.96 0.2666 0.0391

Mercury -50718-02-05 19:54 J -16803290.72 -16803290.67 -16803290.61 0.2663 0.2476

Mercury -50711-01-28 18:28 J -16800741.85 -16800741.73 -16800741.62 0.2668 0.1473

Mercury -50708-08-07 05:30 J -16799455.38 -16799455.27 -16799455.15 0.2667 0.0537

Mercury -50701-07-30 23:59 J -16796905.57 -16796905.50 -16796905.42 0.2663 0.2081

Mercury -50698-01-31 20:37 J -16795990.79 -16795990.64 -16795990.50 0.2666 0.0125

Mercury -50695-08-10 00:42 J -16794704.57 -16794704.47 -16794704.37 0.2669 0.1430

Mercury -50688-08-02 19:40 J -16792154.78 -16792154.68 -16792154.57 0.2664 0.1137

Mercury -50685-02-03 23:16 J -16791239.66 -16791239.53 -16791239.41 0.2664 0.1291

Mercury -50682-08-12 19:40 J -16789953.73 -16789953.68 -16789953.62 0.2671 0.2303

Mercury -50678-01-26 22:33 J -16788690.60 -16788690.56 -16788690.53 0.2670 0.2553

Mercury -50675-08-05 15:21 J -16787403.98 -16787403.86 -16787403.75 0.2666 0.0220

Mercury -50665-01-30 00:13 J -16783939.61 -16783939.49 -16783939.36 0.2668 0.1235

Mercury -50662-08-08 10:33 J -16782653.17 -16782653.06 -16782652.95 0.2668 0.0701

Mercury -50655-08-01 05:16 J -16780103.36 -16780103.28 -16780103.20 0.2663 0.1904

Venus -50655-10-06 12:13 J -16780037.07 -16780036.99 -16780036.90 0.2703 0.2190

Mercury -50652-02-01 02:37 J -16779188.54 -16779188.39 -16779188.25 0.2666 0.0135

Mercury -50649-08-10 05:45 J -16777902.35 -16777902.26 -16777902.17 0.2669 0.1587

Venus -50647-10-04 06:13 J -16777117.36 -16777117.24 -16777117.11 0.2702 0.1425

Mercury -50642-08-04 00:42 J -16775352.58 -16775352.47 -16775352.35 0.2664 0.0969

Mercury -50639-02-04 05:16 J -16774437.40 -16774437.28 -16774437.17 0.2664 0.1537

Mercury -50636-08-13 00:42 J -16773151.51 -16773151.47 -16773151.42 0.2671 0.2462

Mercury -50632-01-27 04:18 J -16771888.38 -16771888.32 -16771888.25 0.2670 0.2316

Mercury -50629-08-05 20:23 J -16770601.77 -16770601.65 -16770601.53 0.2666 0.0071

Mercury -50619-01-30 06:13 J -16767137.37 -16767137.24 -16767137.11 0.2668 0.0998

Mercury -50616-08-08 15:35 J -16765850.96 -16765850.85 -16765850.74 0.2668 0.0866

Mercury -50609-08-01 10:18 J -16763301.16 -16763301.07 -16763300.98 0.2663 0.1728

Mercury -50606-02-02 08:37 J -16762386.28 -16762386.14 -16762386.00 0.2666 0.0378

Mercury -50603-08-11 10:47 J -16761100.14 -16761100.05 -16761099.96 0.2670 0.1750

Mercury -50596-08-04 05:59 J -16758550.37 -16758550.25 -16758550.14 0.2665 0.0793

Mercury -50593-02-05 11:16 J -16757635.14 -16757635.03 -16757634.92 0.2664 0.1787

Mercury -50590-08-14 05:45 J -16756349.28 -16756349.26 -16756349.24 0.2672 0.2615

Mercury -50586-01-28 10:18 J -16755086.16 -16755086.07 -16755085.99 0.2669 0.2089

Mercury -50583-08-07 01:25 J -16753799.56 -16753799.44 -16753799.33 0.2667 0.0141

Mercury -50576-07-30 19:40 J -16751249.72 -16751249.68 -16751249.64 0.2662 0.2504

Mercury -50573-01-31 12:13 J -16750335.13 -16750334.99 -16750334.85 0.2667 0.0754

Mercury -50570-08-09 20:37 J -16749048.75 -16749048.64 -16749048.53 0.2668 0.1026

Mercury -50563-08-02 15:21 J -16746498.95 -16746498.86 -16746498.76 0.2663 0.1555

Mercury -50560-02-02 14:37 J -16745584.03 -16745583.89 -16745583.75 0.2665 0.0619

Mercury -50557-08-11 15:49 J -16744297.92 -16744297.84 -16744297.76 0.2670 0.1910

Mercury -50550-08-05 11:01 J -16741748.16 -16741748.04 -16741747.93 0.2665 0.0620

Mercury -50547-02-05 17:16 J -16740832.87 -16740832.78 -16740832.69 0.2663 0.2035

Mercury -50540-01-28 16:04 J -16738283.93 -16738283.83 -16738283.73 0.2669 0.1850

Mercury -50537-08-07 06:28 J -16736997.35 -16736997.23 -16736997.12 0.2667 0.0296

Venus -50533-04-02 20:37 J -16735662.80 -16735662.64 -16735662.48 0.2631 0.0819

Mercury -50530-08-01 00:42 J -16734447.52 -16734447.47 -16734447.41 0.2662 0.2331

Mercury -50527-01-31 18:13 J -16733532.88 -16733532.74 -16733532.60 0.2667 0.0523

Mercury -50524-08-10 01:40 J -16732246.53 -16732246.43 -16732246.33 0.2669 0.1191

Mercury -50517-08-02 20:23 J -16729696.75 -16729696.65 -16729696.54 0.2664 0.1384

Mercury -50514-02-03 20:37 J -16728781.78 -16728781.64 -16728781.51 0.2665 0.0866

Mercury -50511-08-12 20:52 J -16727495.71 -16727495.63 -16727495.56 0.2670 0.2070

Mercury -50504-08-05 16:04 J -16724945.95 -16724945.83 -16724945.71 0.2665 0.0451

Mercury -50501-02-06 23:30 J -16724030.60 -16724030.52 -16724030.45 0.2663 0.2290

Mercury -50494-01-29 22:04 J -16721481.69 -16721481.58 -16721481.47 0.2669 0.1613

Mercury -50491-08-08 11:30 J -16720195.14 -16720195.02 -16720194.91 0.2667 0.0463

Mercury -50484-08-01 05:45 J -16717645.32 -16717645.26 -16717645.19 0.2662 0.2155

Mercury -50481-02-02 00:13 J -16716730.64 -16716730.49 -16716730.35 0.2667 0.0278

Mercury -50478-08-11 06:42 J -16715444.32 -16715444.22 -16715444.12 0.2669 0.1352

Mercury -50471-08-04 01:40 J -16712894.54 -16712894.43 -16712894.33 0.2664 0.1213

Mercury -50468-02-04 02:37 J -16711979.52 -16711979.39 -16711979.26 0.2665 0.1110

Mercury -50465-08-13 01:54 J -16710693.49 -16710693.42 -16710693.36 0.2671 0.2229

Mercury -50458-08-06 21:06 J -16708143.74 -16708143.62 -16708143.50 0.2666 0.0284

Mercury -50455-02-07 05:30 J -16707228.31 -16707228.27 -16707228.23 0.2663 0.2539

Mercury -50448-01-30 04:04 J -16704679.45 -16704679.33 -16704679.21 0.2668 0.1376

Mercury -50445-08-08 16:33 J -16703392.93 -16703392.81 -16703392.70 0.2667 0.0626

Mercury -50438-08-02 11:01 J -16700843.12 -16700843.04 -16700842.96 0.2662 0.1982

Mercury -50435-02-02 06:13 J -16699928.39 -16699928.24 -16699928.10 0.2666 0.0084

Mercury -50432-08-11 11:45 J -16698642.11 -16698642.01 -16698641.92 0.2669 0.1515

Mercury -50425-08-04 06:42 J -16696092.33 -16696092.22 -16696092.11 0.2664 0.1038

Mercury -50422-02-05 08:37 J -16695177.26 -16695177.14 -16695177.02 0.2664 0.1361

Mercury -50419-08-14 06:42 J -16693891.27 -16693891.22 -16693891.17 0.2671 0.2386

Mercury -50415-01-28 08:09 J -16692628.21 -16692628.16 -16692628.11 0.2670 0.2449

Mercury -50412-08-07 02:09 J -16691341.53 -16691341.41 -16691341.29 0.2666 0.0119

Venus -50412-10-06 16:04 J -16691280.91 -16691280.83 -16691280.76 0.2702 0.2336

Venus -50404-10-04 10:04 J -16688361.22 -16688361.08 -16688360.95 0.2701 0.1275

Mercury -50402-01-31 09:49 J -16687877.21 -16687877.09 -16687876.96 0.2668 0.1142

Mercury -50399-08-09 21:35 J -16686590.71 -16686590.60 -16686590.49 0.2668 0.0791

Mercury -50392-08-02 16:04 J -16684040.92 -16684040.83 -16684040.74 0.2663 0.1805

Mercury -50389-02-03 12:13 J -16683126.14 -16683125.99 -16683125.85 0.2666 0.0223

Mercury -50386-08-12 16:47 J -16681839.89 -16681839.80 -16681839.71 0.2670 0.1674

Mercury -50379-08-05 11:45 J -16679290.12 -16679290.01 -16679289.90 0.2664 0.0868

Mercury -50376-02-05 14:37 J -16678375.00 -16678374.89 -16678374.77 0.2664 0.1608

Mercury -50373-08-14 11:45 J -16677089.04 -16677089.01 -16677088.98 0.2671 0.2543

Mercury -50369-01-29 14:09 J -16675825.99 -16675825.91 -16675825.84 0.2670 0.2216

Mercury -50366-08-08 07:11 J -16674539.32 -16674539.20 -16674539.08 0.2666 0.0061

Mercury -50359-08-01 01:25 J -16671989.47 -16671989.44 -16671989.42 0.2661 0.2587

Mercury -50356-01-31 15:49 J -16671074.97 -16671074.84 -16671074.71 0.2668 0.0906

Mercury -50353-08-10 02:37 J -16669788.50 -16669788.39 -16669788.28 0.2668 0.0953

Mercury -50346-08-03 21:06 J -16667238.71 -16667238.62 -16667238.52 0.2663 0.1632

Mercury -50343-02-03 17:59 J -16666323.89 -16666323.75 -16666323.61 0.2666 0.0457

Mercury -50340-08-12 21:49 J -16665037.68 -16665037.59 -16665037.51 0.2670 0.1836

Mercury -50333-08-05 16:47 J -16662487.91 -16662487.80 -16662487.68 0.2665 0.0698

Mercury -50330-02-06 20:52 J -16661572.74 -16661572.63 -16661572.53 0.2664 0.1863

Mercury -50323-01-29 19:54 J -16659023.76 -16659023.67 -16659023.58 0.2669 0.1986

Mercury -50320-08-08 12:13 J -16657737.10 -16657736.99 -16657736.87 0.2666 0.0222

Mercury -50313-08-01 06:28 J -16655187.28 -16655187.23 -16655187.18 0.2662 0.2405

Mercury -50310-02-01 21:49 J -16654272.73 -16654272.59 -16654272.45 0.2667 0.0665

Mercury -50307-08-11 07:40 J -16652986.29 -16652986.18 -16652986.08 0.2668 0.1116

Mercury -50300-08-04 02:23 J -16650436.50 -16650436.40 -16650436.31 0.2663 0.1461

Mercury -50297-02-04 23:59 J -16649521.63 -16649521.50 -16649521.36 0.2665 0.0703

Mercury -50294-08-14 02:52 J -16648235.46 -16648235.38 -16648235.31 0.2670 0.1992

Venus -50290-04-03 18:42 J -16646906.87 -16646906.72 -16646906.56 0.2632 0.0950

Mercury -50287-08-06 21:49 J -16645685.70 -16645685.59 -16645685.47 0.2665 0.0532

Mercury -50284-02-07 02:52 J -16644770.47 -16644770.38 -16644770.30 0.2663 0.2106

Mercury -50277-01-31 01:54 J -16642221.53 -16642221.42 -16642221.32 0.2669 0.1753

Mercury -50274-08-09 17:16 J -16640934.89 -16640934.78 -16640934.66 0.2667 0.0393

Mercury -50267-08-02 11:30 J -16638385.08 -16638385.02 -16638384.95 0.2662 0.2233

Mercury -50264-02-02 03:49 J -16637470.48 -16637470.34 -16637470.20 0.2667 0.0436

Mercury -50261-08-11 12:42 J -16636184.07 -16636183.97 -16636183.87 0.2669 0.1277

Mercury -50254-08-05 07:25 J -16633634.29 -16633634.19 -16633634.09 0.2664 0.1285

Mercury -50251-02-05 06:13 J -16632719.38 -16632719.24 -16632719.11 0.2665 0.0947

Mercury -50248-08-14 07:40 J -16631433.24 -16631433.18 -16631433.11 0.2670 0.2152

Mercury -50241-08-07 02:52 J -16628883.49 -16628883.38 -16628883.26 0.2665 0.0373

Mercury -50238-02-08 08:52 J -16627968.19 -16627968.13 -16627968.06 0.2663 0.2356

Mercury -50231-01-31 07:40 J -16625419.29 -16625419.18 -16625419.06 0.2669 0.1523

Mercury -50228-08-09 22:18 J -16624132.68 -16624132.57 -16624132.45 0.2667 0.0552

Mercury -50221-08-02 16:47 J -16621582.88 -16621582.80 -16621582.73 0.2662 0.2055

Mercury -50218-02-03 09:49 J -16620668.24 -16620668.09 -16620667.95 0.2667 0.0203

Mercury -50215-08-12 17:45 J -16619381.86 -16619381.76 -16619381.67 0.2669 0.1438

Mercury -50208-08-05 12:28 J -16616832.09 -16616831.98 -16616831.87 0.2664 0.1115

Mercury -50205-02-06 11:59 J -16615917.12 -16615917.00 -16615916.87 0.2665 0.1188

Mercury -50202-08-15 12:42 J -16614631.02 -16614630.97 -16614630.91 0.2671 0.2308

Mercury -50198-01-29 11:59 J -16613368.03 -16613368.00 -16613367.96 0.2670 0.2574

Mercury -50195-08-08 08:09 J -16612081.28 -16612081.16 -16612081.05 0.2666 0.0216

Mercury -50192-02-08 14:52 J -16611165.90 -16611165.88 -16611165.85 0.2663 0.2605

Mercury -50185-02-01 13:40 J -16608617.05 -16608616.93 -16608616.81 0.2668 0.1285

Mercury -50182-08-11 03:35 J -16607330.47 -16607330.35 -16607330.24 0.2667 0.0720

Mercury -50175-08-03 21:49 J -16604780.67 -16604780.59 -16604780.51 0.2662 0.1883

Mercury -50172-02-03 15:35 J -16603865.99 -16603865.85 -16603865.71 0.2666 0.0059

Mercury -50169-08-12 22:47 J -16602579.65 -16602579.55 -16602579.46 0.2669 0.1600

Venus -50169-10-06 19:40 J -16602524.73 -16602524.68 -16602524.62 0.2701 0.2502

Mercury -50162-08-06 17:30 J -16600029.88 -16600029.77 -16600029.66 0.2664 0.0944

Venus -50161-10-04 13:40 J -16599605.07 -16599604.93 -16599604.79 0.2700 0.1104

Mercury -50159-02-06 18:13 J -16599114.87 -16599114.74 -16599114.62 0.2664 0.1435

Mercury -50156-08-15 17:45 J -16597828.80 -16597828.76 -16597828.72 0.2671 0.2462

Mercury -50152-01-29 17:59 J -16596565.82 -16596565.75 -16596565.69 0.2670 0.2346

Mercury -50149-08-08 13:11 J -16595279.07 -16595278.95 -16595278.84 0.2666 0.0075

Mercury -50139-02-01 19:40 J -16591814.81 -16591814.68 -16591814.55 0.2668 0.1048

Mercury -50136-08-11 08:23 J -16590528.26 -16590528.15 -16590528.04 0.2668 0.0882

Mercury -50129-08-04 02:52 J -16587978.47 -16587978.38 -16587978.29 0.2663 0.1710

Mercury -50126-02-04 21:35 J -16587063.74 -16587063.60 -16587063.45 0.2666 0.0306

Mercury -50123-08-14 03:49 J -16585777.43 -16585777.34 -16585777.26 0.2669 0.1759

Mercury -50116-08-06 22:33 J -16583227.67 -16583227.56 -16583227.44 0.2664 0.0780

Mercury -50113-02-08 00:13 J -16582312.60 -16582312.49 -16582312.38 0.2664 0.1676

Mercury -50110-08-16 22:47 J -16581026.57 -16581026.55 -16581026.53 0.2671 0.2619

Mercury -50106-01-30 23:45 J -16579763.59 -16579763.51 -16579763.43 0.2670 0.2116

Mercury -50103-08-09 18:13 J -16578476.86 -16578476.74 -16578476.62 0.2666 0.0147

Mercury -50096-08-02 12:13 J -16575927.03 -16575926.99 -16575926.95 0.2661 0.2486

Mercury -50093-02-03 01:25 J -16575012.57 -16575012.44 -16575012.30 0.2668 0.0815

Mercury -50090-08-12 13:25 J -16573726.04 -16573725.94 -16573725.83 0.2668 0.1044

Mercury -50083-08-05 08:09 J -16571176.26 -16571176.16 -16571176.07 0.2663 0.1540

Mercury -50080-02-05 03:49 J -16570261.49 -16570261.34 -16570261.21 0.2666 0.0544

Mercury -50077-08-14 08:37 J -16568975.22 -16568975.14 -16568975.06 0.2670 0.1918

Mercury -50070-08-08 03:49 J -16566425.46 -16566425.34 -16566425.23 0.2665 0.0610

Mercury -50067-02-08 06:13 J -16565510.34 -16565510.24 -16565510.14 0.2664 0.1929

Mercury -50060-01-31 05:30 J -16562961.36 -16562961.27 -16562961.17 0.2669 0.1891

Mercury -50057-08-09 23:16 J -16561674.65 -16561674.53 -16561674.41 0.2666 0.0307

Mercury -50050-08-03 17:16 J -16559124.83 -16559124.78 -16559124.72 0.2662 0.2309

Mercury -50047-02-03 07:25 J -16558210.33 -16558210.19 -16558210.05 0.2667 0.0576

Venus -50047-04-03 17:30 J -16558150.92 -16558150.77 -16558150.62 0.2632 0.1015

Mercury -50044-08-12 18:28 J -16556923.83 -16556923.73 -16556923.62 0.2668 0.1202

Mercury -50037-08-05 13:11 J -16554374.05 -16554373.95 -16554373.85 0.2663 0.1364

Mercury -50034-02-06 09:35 J -16553459.23 -16553459.10 -16553458.96 0.2665 0.0783

Mercury -50031-08-15 13:40 J -16552173.00 -16552172.93 -16552172.86 0.2670 0.2074

Mercury -50024-08-08 08:52 J -16549623.25 -16549623.13 -16549623.02 0.2665 0.0441

Mercury -50021-02-09 12:13 J -16548708.07 -16548707.99 -16548707.91 0.2663 0.2174

Mercury -50014-02-01 11:30 J -16546159.13 -16546159.02 -16546158.91 0.2669 0.1656

Mercury -50011-08-11 04:18 J -16544872.44 -16544872.32 -16544872.20 0.2667 0.0471

Mercury -50004-08-03 22:33 J -16542322.63 -16542322.56 -16542322.49 0.2662 0.2136

Mercury -50001-02-04 13:25 J -16541408.08 -16541407.94 -16541407.80 0.2667 0.0346

50TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 50th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-49998-08-13 23:30 J	-16540121.62	-16540121.52	-16540121.42	0.2669	0.1362		
Mercury	-49991-08-06 18:13 J	-16537571.84	-16537571.74	-16537571.63	0.2664	0.1191		
Mercury	-49988-02-06 15:35 J	-16536656.98	-16536656.85	-16536656.72	0.2665	0.1019		
Mercury	-49985-08-15 18:42 J	-16535370.78	-16535370.72	-16535370.66	0.2670	0.2229		
Mercury	-49978-08-09 13:54 J	-16532821.04	-16532820.92	-16532820.80	0.2665	0.0269		
Mercury	-49975-02-09 18:28 J	-16531905.79	-16531905.73	-16531905.68	0.2663	0.2425		
Mercury	-49968-02-01 17:30 J	-16529356.89	-16529356.77	-16529356.66	0.2669	0.1428		
Mercury	-49965-08-11 09:21 J	-16528070.22	-16528070.11	-16528070.00	0.2667	0.0634		
Mercury	-49958-08-05 03:35 J	-16525520.43	-16525520.35	-16525520.27	0.2662	0.1958		
Mercury	-49955-02-04 19:25 J	-16524605.83	-16524605.69	-16524605.55	0.2667	0.0115		
Mercury	-49952-08-14 04:33 J	-16523319.40	-16523319.31	-16523319.21	0.2669	0.1519		
Mercury	-49945-08-06 23:16 J	-16520769.64	-16520769.53	-16520769.42	0.2664	0.1026		
Mercury	-49942-02-07 21:35 J	-16519854.72	-16519854.60	-16519854.47	0.2665	0.1261		

Mercury -49939-08-16 23:45 J -16518568.56 -16518568.51 -16518568.46 0.2671 0.2384

Mercury -49935-01-30 21:49 J -16517305.64 -16517305.59 -16517305.54 0.2670 0.2477

Mercury -49932-08-09 18:57 J -16516018.83 -16516018.71 -16516018.59 0.2666 0.0107

Venus -49926-10-07 23:30 J -16513768.54 -16513768.52 -16513768.50 0.2701 0.2665

Mercury -49922-02-02 23:16 J -16512554.65 -16512554.53 -16512554.40 0.2668 0.1195

Mercury -49919-08-12 14:23 J -16511268.01 -16511267.90 -16511267.79 0.2667 0.0799

Venus -49918-10-05 17:30 J -16510848.92 -16510848.77 -16510848.63 0.2700 0.0940

Mercury -49912-08-05 08:37 J -16508718.22 -16508718.14 -16508718.05 0.2662 0.1789

Mercury -49909-02-06 01:11 J -16507803.59 -16507803.45 -16507803.30 0.2666 0.0151

Mercury -49906-08-15 09:35 J -16506517.19 -16506517.10 -16506517.01 0.2669 0.1678

Mercury -49899-08-08 04:33 J -16503967.43 -16503967.31 -16503967.20 0.2664 0.0852

Mercury -49896-02-08 03:35 J -16503052.46 -16503052.35 -16503052.23 0.2664 0.1506

Mercury -49893-08-17 04:47 J -16501766.33 -16501766.30 -16501766.27 0.2671 0.2541

Mercury -49889-02-01 03:35 J -16500503.42 -16500503.35 -16500503.28 0.2670 0.2249

Mercury -49886-08-10 23:59 J -16499216.62 -16499216.50 -16499216.38 0.2666 0.0084

Mercury -49879-08-03 17:59 J -16496666.78 -16496666.75 -16496666.72 0.2661 0.2564

Mercury -49876-02-03 05:16 J -16495752.41 -16495752.28 -16495752.15 0.2668 0.0962

Mercury -49873-08-12 19:25 J -16494465.80 -16494465.69 -16494465.58 0.2668 0.0959

Mercury -49866-08-06 13:54 J -16491916.02 -16491915.92 -16491915.83 0.2663 0.1614

Mercury -49863-02-06 07:11 J -16491001.34 -16491001.20 -16491001.06 0.2666 0.0377

Mercury -49860-08-15 14:37 J -16489714.97 -16489714.89 -16489714.80 0.2670 0.1839

Mercury -49853-08-08 09:35 J -16487165.22 -16487165.10 -16487164.99 0.2664 0.0685

Mercury -49850-02-09 09:35 J -16486250.21 -16486250.10 -16486249.99 0.2664 0.1744

Mercury -49843-02-01 09:35 J -16483701.19 -16483701.10 -16483701.01 0.2670 0.2019

Mercury -49840-08-11 05:01 J -16482414.40 -16482414.29 -16482414.17 0.2666 0.0240

Mercury -49833-08-03 23:01 J -16479864.59 -16479864.54 -16479864.49 0.2661 0.2389

Mercury -49830-02-04 11:16 J -16478950.17 -16478950.03 -16478949.90 0.2668 0.0730

Mercury -49827-08-14 00:28 J -16477663.58 -16477663.48 -16477663.37 0.2668 0.1122

Mercury -49820-08-06 18:57 J -16475113.81 -16475113.71 -16475113.61 0.2663 0.1441

Mercury -49817-02-07 13:11 J -16474199.09 -16474198.95 -16474198.81 0.2666 0.0608

Mercury -49814-08-16 19:40 J -16472912.75 -16472912.68 -16472912.60 0.2670 0.1995

Mercury -49807-08-09 14:37 J -16470363.00 -16470362.89 -16470362.77 0.2665 0.0514

Mercury -49804-02-09 15:35 J -16469447.94 -16469447.85 -16469447.75 0.2664 0.1994

Venus -49804-04-03 15:49 J -16469394.99 -16469394.84 -16469394.69 0.2633 0.1136

Mercury -49797-02-02 15:21 J -16466898.96 -16466898.86 -16466898.76 0.2669 0.1789

Mercury -49794-08-12 10:04 J -16465612.19 -16465612.08 -16465611.96 0.2666 0.0400

Mercury -49787-08-05 04:04 J -16463062.39 -16463062.33 -16463062.26 0.2662 0.2215

Mercury -49784-02-04 17:16 J -16462147.92 -16462147.78 -16462147.65 0.2667 0.0498

Mercury -49781-08-14 05:30 J -16460861.37 -16460861.27 -16460861.17 0.2668 0.1282

Mercury -49774-08-07 23:59 J -16458311.60 -16458311.50 -16458311.39 0.2663 0.1272

Mercury -49771-02-07 19:11 J -16457396.83 -16457396.70 -16457396.56 0.2665 0.0854

Mercury -49768-08-17 00:42 J -16456110.53 -16456110.47 -16456110.40 0.2670 0.2152

Mercury -49761-08-09 19:40 J -16453560.79 -16453560.68 -16453560.56 0.2665 0.0354

Mercury -49758-02-10 21:49 J -16452645.67 -16452645.59 -16452645.52 0.2664 0.2233

Mercury -49751-02-02 21:21 J -16450096.73 -16450096.61 -16450096.50 0.2669 0.1566

Mercury -49748-08-12 15:21 J -16448809.98 -16448809.86 -16448809.75 0.2667 0.0568

Mercury -49741-08-05 09:21 J -16446260.19 -16446260.11 -16446260.04 0.2662 0.2040

Mercury -49738-02-05 23:01 J -16445345.68 -16445345.54 -16445345.40 0.2667 0.0257

Mercury -49735-08-15 10:33 J -16444059.16 -16444059.06 -16444058.96 0.2669 0.1442

Mercury -49728-08-08 05:16 J -16441509.39 -16441509.28 -16441509.18 0.2664 0.1105

Mercury -49725-02-09 01:11 J -16440594.58 -16440594.45 -16440594.32 0.2665 0.1094

Mercury -49722-08-18 05:45 J -16439308.32 -16439308.26 -16439308.20 0.2670 0.2308

Mercury -49718-02-01 01:40 J -16438045.46 -16438045.43 -16438045.40 0.2671 0.2603

Mercury -49715-08-11 00:42 J -16436758.58 -16436758.47 -16436758.35 0.2665 0.0197

Mercury -49712-02-11 03:49 J -16435843.39 -16435843.34 -16435843.29 0.2663 0.2486

Mercury -49705-02-04 03:06 J -16433294.49 -16433294.37 -16433294.25 0.2669 0.1336

Mercury -49702-08-13 20:09 J -16432007.77 -16432007.66 -16432007.54 0.2667 0.0723

Mercury -49695-08-06 14:23 J -16429457.98 -16429457.90 -16429457.81 0.2662 0.1866

Mercury -49692-02-06 05:01 J -16428543.43 -16428543.29 -16428543.15 0.2667 0.0039

Mercury -49689-08-15 15:35 J -16427256.94 -16427256.85 -16427256.76 0.2669 0.1601

Mercury -49682-08-09 10:18 J -16424707.18 -16424707.07 -16424706.96 0.2664 0.0933

Mercury -49679-02-09 07:11 J -16423792.32 -16423792.20 -16423792.08 0.2665 0.1330

Mercury -49676-08-18 10:47 J -16422506.09 -16422506.05 -16422506.01 0.2671 0.2464

Venus -49675-10-05 20:52 J -16422092.77 -16422092.63 -16422092.48 0.2699 0.0783

Mercury -49672-02-01 07:25 J -16421243.25 -16421243.19 -16421243.13 0.2670 0.2379

Mercury -49669-08-11 05:45 J -16419956.37 -16419956.26 -16419956.14 0.2666 0.0102

Mercury -49662-08-04 23:30 J -16417406.53 -16417406.52 -16417406.51 0.2661 0.2644

Mercury -49659-02-04 09:06 J -16416492.25 -16416492.12 -16416492.00 0.2668 0.1109

Mercury -49656-08-14 01:25 J -16415205.55 -16415205.44 -16415205.33 0.2667 0.0886

Mercury -49649-08-06 19:40 J -16412655.77 -16412655.68 -16412655.59 0.2663 0.1693

Mercury -49646-02-07 10:47 J -16411741.19 -16411741.05 -16411740.90 0.2666 0.0217

Mercury -49643-08-16 20:37 J -16410454.73 -16410454.64 -16410454.55 0.2669 0.1758

Mercury -49636-08-09 15:21 J -16407904.97 -16407904.86 -16407904.74 0.2664 0.0761

Mercury -49633-02-10 13:11 J -16406990.06 -16406989.95 -16406989.83 0.2665 0.1572

Mercury -49630-08-19 15:49 J -16405703.86 -16405703.84 -16405703.82 0.2671 0.2616

Mercury -49626-02-02 13:25 J -16404441.02 -16404440.94 -16404440.86 0.2670 0.2153

Mercury -49623-08-12 11:01 J -16403154.16 -16403154.04 -16403153.93 0.2666 0.0169

Mercury -49616-08-05 04:47 J -16400604.34 -16400604.30 -16400604.26 0.2661 0.2468

Mercury -49613-02-05 14:52 J -16399690.01 -16399689.88 -16399689.75 0.2668 0.0877

Mercury -49610-08-15 06:28 J -16398403.34 -16398403.23 -16398403.13 0.2668 0.1045

Mercury -49603-08-08 00:42 J -16395853.57 -16395853.47 -16395853.37 0.2663 0.1520

Mercury -49600-02-07 16:47 J -16394938.94 -16394938.80 -16394938.66 0.2666 0.0449

Mercury -49597-08-17 01:40 J -16393652.51 -16393652.43 -16393652.35 0.2670 0.1916

Mercury -49590-08-10 20:23 J -16391102.76 -16391102.65 -16391102.53 0.2664 0.0598

Mercury -49587-02-10 19:11 J -16390187.80 -16390187.70 -16390187.59 0.2664 0.1812

Mercury -49580-02-02 19:11 J -16387638.79 -16387638.70 -16387638.60 0.2670 0.1929

Mercury -49577-08-12 16:04 J -16386351.95 -16386351.83 -16386351.71 0.2666 0.0316

Mercury -49570-08-06 09:49 J -16383802.15 -16383802.09 -16383802.03 0.2661 0.2294

Mercury -49567-02-05 20:52 J -16382887.77 -16382887.63 -16382887.50 0.2668 0.0650

Mercury -49564-08-15 11:30 J -16381601.13 -16381601.02 -16381600.92 0.2668 0.1206

Venus -49561-04-03 14:37 J -16380639.04 -16380638.89 -16380638.74 0.2634 0.1187

Mercury -49557-08-08 05:45 J -16379051.36 -16379051.26 -16379051.15 0.2663 0.1353

Mercury -49554-02-08 22:47 J -16378136.69 -16378136.55 -16378136.41 0.2666 0.0684

Mercury -49551-08-18 06:42 J -16376850.29 -16376850.22 -16376850.15 0.2670 0.2072

Mercury -49544-08-11 01:25 J -16374300.55 -16374300.44 -16374300.32 0.2665 0.0437

Mercury -49541-02-12 01:11 J -16373385.54 -16373385.45 -16373385.36 0.2664 0.2057

Mercury -49534-02-04 01:11 J -16370836.56 -16370836.45 -16370836.35 0.2669 0.1702

Mercury -49531-08-13 21:06 J -16369549.74 -16369549.62 -16369549.50 0.2666 0.0478

Mercury -49524-08-06 15:06 J -16366999.94 -16366999.87 -16366999.80 0.2662 0.2120

Mercury -49521-02-07 02:52 J -16366085.52 -16366085.38 -16366085.25 0.2667 0.0420

Mercury -49518-08-16 16:33 J -16364798.91 -16364798.81 -16364798.71 0.2668 0.1364

Mercury -49511-08-09 11:01 J -16362249.15 -16362249.04 -16362248.94 0.2663 0.1184

Mercury -49508-02-09 04:47 J -16361334.43 -16361334.30 -16361334.17 0.2665 0.0921

Mercury -49505-08-18 11:45 J -16360048.07 -16360048.01 -16360047.95 0.2670 0.2231

Mercury -49498-08-12 06:42 J -16357498.34 -16357498.22 -16357498.11 0.2665 0.0277

Mercury -49495-02-12 07:11 J -16356583.27 -16356583.20 -16356583.13 0.2664 0.2297

Mercury -49488-02-04 06:57 J -16354034.33 -16354034.21 -16354034.09 0.2669 0.1474

Mercury -49485-08-14 02:09 J -16352747.52 -16352747.41 -16352747.29 0.2667 0.0641

Mercury -49478-08-07 20:09 J -16350197.74 -16350197.66 -16350197.58 0.2662 0.1947

Mercury -49475-02-07 08:37 J -16349283.28 -16349283.14 -16349283.00 0.2667 0.0180

Mercury -49472-08-16 21:35 J -16347996.70 -16347996.60 -16347996.51 0.2669 0.1524

Mercury -49465-08-09 16:04 J -16345446.94 -16345446.83 -16345446.72 0.2664 0.1012

Mercury -49462-02-10 10:47 J -16344532.18 -16344532.05 -16344531.92 0.2665 0.1161

Mercury -49459-08-19 16:47 J -16343245.85 -16343245.80 -16343245.75 0.2670 0.2383

Mercury -49455-02-02 11:30 J -16341983.07 -16341983.02 -16341982.98 0.2671 0.2506

Mercury -49452-08-12 11:45 J -16340696.13 -16340696.01 -16340695.89 0.2665 0.0101

Mercury -49449-02-13 13:25 J -16339780.98 -16339780.94 -16339780.90 0.2663 0.2543

Mercury -49442-02-05 12:42 J -16337232.09 -16337231.97 -16337231.84 0.2669 0.1249

Mercury -49439-08-15 07:11 J -16335945.31 -16335945.20 -16335945.09 0.2667 0.0802

Mercury -49432-08-08 01:11 J -16333395.53 -16333395.45 -16333395.36 0.2662 0.1777

Venus -49432-10-06 00:42 J -16333336.62 -16333336.47 -16333336.32 0.2698 0.0598

Mercury -49429-02-08 14:37 J -16332481.03 -16332480.89 -16332480.75 0.2667 0.0056

Mercury -49426-08-18 02:37 J -16331194.48 -16331194.39 -16331194.30 0.2669 0.1680

Mercury -49419-08-10 21:06 J -16328644.73 -16328644.62 -16328644.51 0.2664 0.0844

Mercury -49416-02-10 16:47 J -16327729.92 -16327729.80 -16327729.68 0.2665 0.1401

Mercury -49413-08-19 21:49 J -16326443.63 -16326443.59 -16326443.56 0.2671 0.2540

Mercury -49409-02-03 17:16 J -16325180.85 -16325180.78 -16325180.71 0.2670 0.2283

Mercury -49406-08-13 16:47 J -16323893.92 -16323893.80 -16323893.68 0.2666 0.0070

Mercury -49399-08-06 10:18 J -16321344.10 -16321344.07 -16321344.03 0.2661 0.2551

Mercury -49396-02-05 18:42 J -16320429.85 -16320429.72 -16320429.59 0.2668 0.1023

Mercury -49393-08-15 12:13 J -16319143.10 -16319142.99 -16319142.88 0.2667 0.0966

Mercury -49386-08-09 06:28 J -16316593.33 -16316593.23 -16316593.14 0.2663 0.1605

Mercury -49383-02-08 20:37 J -16315678.78 -16315678.64 -16315678.50 0.2666 0.0296

Mercury -49380-08-18 07:40 J -16314392.27 -16314392.18 -16314392.10 0.2669 0.1838

Mercury -49373-08-11 02:09 J -16311842.52 -16311842.41 -16311842.29 0.2664 0.0680

Mercury -49370-02-11 22:47 J -16310927.66 -16310927.55 -16310927.44 0.2664 0.1640

Mercury -49363-02-03 23:01 J -16308378.63 -16308378.54 -16308378.45 0.2670 0.2063

Mercury -49360-08-13 21:49 J -16307091.71 -16307091.59 -16307091.47 0.2666 0.0236

Mercury -49353-08-06 15:35 J -16304541.90 -16304541.85 -16304541.80 0.2661 0.2374

Mercury -49350-02-07 00:42 J -16303627.61 -16303627.47 -16303627.34 0.2668 0.0796

Mercury -49347-08-16 17:16 J -16302340.88 -16302340.78 -16302340.67 0.2668 0.1121

Mercury -49340-08-09 11:30 J -16299791.12 -16299791.02 -16299790.92 0.2663 0.1432

Mercury -49337-02-10 02:23 J -16298876.53 -16298876.40 -16298876.26 0.2666 0.0529

Mercury -49334-08-19 12:42 J -16297590.05 -16297589.97 -16297589.90 0.2669 0.1996

Mercury -49327-08-12 07:25 J -16295040.31 -16295040.19 -16295040.08 0.2665 0.0515

Mercury -49324-02-12 04:47 J -16294125.40 -16294125.30 -16294125.20 0.2664 0.1877

Venus -49318-04-04 13:11 J -16291883.10 -16291882.95 -16291882.81 0.2635 0.1280

Mercury -49317-02-05 04:47 J -16291576.40 -16291576.30 -16291576.20 0.2670 0.1842

Mercury -49314-08-15 02:52 J -16290289.49 -16290289.38 -16290289.26 0.2666 0.0401

Mercury -49307-08-07 20:37 J -16287739.70 -16287739.64 -16287739.57 0.2661 0.2204

Mercury -49304-02-07 06:28 J -16286825.37 -16286825.23 -16286825.09 0.2668 0.0565

Mercury -49301-08-16 22:18 J -16285538.67 -16285538.57 -16285538.47 0.2668 0.1285

Mercury -49294-08-10 16:47 J -16282988.91 -16282988.80 -16282988.70 0.2663 0.1264

Mercury -49291-02-10 08:23 J -16282074.29 -16282074.15 -16282074.01 0.2666 0.0755

Mercury -49288-08-19 17:30 J -16280787.83 -16280787.77 -16280787.70 0.2670 0.2149

Mercury -49281-08-12 12:28 J -16278238.10 -16278237.98 -16278237.86 0.2665 0.0340

Mercury -49278-02-13 10:47 J -16277323.13 -16277323.05 -16277322.96 0.2664 0.2117

Mercury -49271-02-05 10:47 J -16274774.16 -16274774.05 -16274773.94 0.2669 0.1612

Mercury -49268-08-15 07:54 J -16273487.28 -16273487.17 -16273487.05 0.2667 0.0567

Mercury -49261-08-08 01:54 J -16270937.50 -16270937.42 -16270937.35 0.2662 0.2030

Mercury -49258-02-08 12:28 J -16270023.12 -16270022.98 -16270022.84 0.2667 0.0338

Mercury -49255-08-18 03:21 J -16268736.46 -16268736.36 -16268736.26 0.2668 0.1440

Mercury -49248-08-10 21:49 J -16266186.70 -16266186.59 -16266186.48 0.2663 0.1094

Mercury -49245-02-11 14:23 J -16265272.03 -16265271.90 -16265271.77 0.2665 0.0990

Mercury -49242-08-20 22:33 J -16263985.61 -16263985.56 -16263985.50 0.2670 0.2306

Mercury -49238-02-03 15:21 J -16262722.88 -16262722.86 -16262722.84 0.2671 0.2627

Mercury -49235-08-13 17:30 J -16261435.89 -16261435.77 -16261435.65 0.2665 0.0178

Mercury -49232-02-13 16:47 J -16260520.87 -16260520.80 -16260520.74 0.2664 0.2354

Mercury -49225-02-06 16:33 J -16257971.92 -16257971.81 -16257971.69 0.2669 0.1393

Mercury -49222-08-16 13:11 J -16256685.07 -16256684.95 -16256684.84 0.2667 0.0728

Mercury -49215-08-09 06:57 J -16254135.29 -16254135.21 -16254135.12 0.2662 0.1858

Mercury -49212-02-08 18:13 J -16253220.88 -16253220.74 -16253220.60 0.2667 0.0116

Mercury -49209-08-18 08:23 J -16251934.24 -16251934.15 -16251934.05 0.2669 0.1601

Mercury -49202-08-12 02:52 J -16249384.49 -16249384.38 -16249384.27 0.2664 0.0926

Mercury -49199-02-11 20:23 J -16248469.78 -16248469.65 -16248469.53 0.2665 0.1227

Mercury -49196-08-21 03:35 J -16247183.39 -16247183.35 -16247183.30 0.2670 0.2457

Mercury -49192-02-03 21:06 J -16245920.67 -16245920.62 -16245920.56 0.2671 0.2413

Mercury -49189-08-13 22:33 J -16244633.68 -16244633.56 -16244633.44 0.2665 0.0045

Venus -49189-10-06 03:49 J -16244580.49 -16244580.34 -16244580.18 0.2698 0.0467

Mercury -49186-02-14 22:47 J -16243718.58 -16243718.55 -16243718.52 0.2663 0.2596

Mercury -49182-08-07 16:04 J -16242083.84 -16242083.83 -16242083.82 0.2661 0.2633

Mercury -49179-02-06 22:33 J -16241169.69 -16241169.56 -16241169.43 0.2669 0.1159

Mercury -49176-08-16 17:59 J -16239882.86 -16239882.75 -16239882.63 0.2667 0.0888

Mercury -49169-08-09 12:13 J -16237333.09 -16237332.99 -16237332.90 0.2662 0.1689

Mercury -49166-02-10 00:13 J -16236418.63 -16236418.49 -16236418.35 0.2667 0.0137

Mercury -49163-08-19 13:25 J -16235132.02 -16235131.94 -16235131.85 0.2669 0.1758

Mercury -49156-08-12 07:54 J -16232582.28 -16232582.17 -16232582.05 0.2664 0.0761

Mercury -49153-02-13 02:23 J -16231667.52 -16231667.40 -16231667.28 0.2665 0.1463

Mercury -49150-08-22 08:37 J -16230381.16 -16230381.14 -16230381.12 0.2671 0.2614

Mercury -49146-02-05 03:06 J -16229118.45 -16229118.37 -16229118.30 0.2670 0.2191

Mercury -49143-08-15 03:35 J -16227831.46 -16227831.35 -16227831.23 0.2666 0.0170

Mercury -49136-08-07 21:06 J -16225281.66 -16225281.62 -16225281.57 0.2661 0.2463

Mercury -49133-02-08 04:18 J -16224367.45 -16224367.32 -16224367.19 0.2668 0.0941

Mercury -49130-08-17 23:16 J -16223080.64 -16223080.53 -16223080.43 0.2667 0.1046

Mercury -49123-08-10 17:16 J -16220530.88 -16220530.78 -16220530.68 0.2663 0.1514

Mercury -49120-02-10 06:13 J -16219616.38 -16219616.24 -16219616.10 0.2666 0.0366

Mercury -49117-08-19 18:28 J -16218329.81 -16218329.73 -16218329.65 0.2669 0.1913

Mercury -49110-08-13 13:11 J -16215780.07 -16215779.95 -16215779.84 0.2664 0.0593

Mercury -49107-02-13 08:23 J -16214865.26 -16214865.15 -16214865.04 0.2665 0.1703

Mercury -49100-02-05 08:52 J -16212316.22 -16212316.13 -16212316.04 0.2670 0.1971

Mercury -49097-08-15 08:37 J -16211029.25 -16211029.14 -16211029.02 0.2666 0.0333

Mercury -49090-08-09 02:23 J -16208479.46 -16208479.40 -16208479.34 0.2661 0.2285

Mercury -49087-02-08 10:18 J -16207565.21 -16207565.07 -16207564.94 0.2668 0.0709

Mercury -49084-08-18 04:18 J -16206278.43 -16206278.32 -16206278.22 0.2668 0.1202

Mercury -49077-08-10 22:18 J -16203728.67 -16203728.57 -16203728.46 0.2663 0.1348

Venus -49075-04-04 11:59 J -16203127.14 -16203127.00 -16203126.86 0.2635 0.1355

Mercury -49074-02-11 11:59 J -16202814.13 -16202814.00 -16202813.86 0.2666 0.0598

Mercury -49071-08-20 23:30 J -16201527.59 -16201527.52 -16201527.45 0.2669 0.2067

Mercury -49064-08-13 18:13 J -16198977.86 -16198977.74 -16198977.62 0.2665 0.0426

Mercury -49061-02-14 14:23 J -16198063.00 -16198062.90 -16198062.81 0.2664 0.1939

Mercury -49054-02-06 14:37 J -16195513.99 -16195513.89 -16195513.78 0.2670 0.1752

Mercury -49051-08-16 13:54 J -16194227.04 -16194226.92 -16194226.81 0.2666 0.0481

Mercury -49044-08-09 07:25 J -16191677.26 -16191677.19 -16191677.11 0.2661 0.2115

Mercury -49041-02-09 16:04 J -16190762.97 -16190762.83 -16190762.69 0.2668 0.0490

Mercury -49038-08-19 09:21 J -16189476.21 -16189476.11 -16189476.01 0.2668 0.1361

Mercury -49031-08-12 03:35 J -16186926.46 -16186926.35 -16186926.25 0.2663 0.1177

Mercury -49028-02-11 17:59 J -16186011.88 -16186011.75 -16186011.61 0.2666 0.0828

Mercury -49025-08-21 04:33 J -16184725.37 -16184725.31 -16184725.25 0.2670 0.2221

Mercury -49018-08-14 23:16 J -16182175.65 -16182175.53 -16182175.41 0.2665 0.0260

Mercury -49015-02-14 20:23 J -16181260.73 -16181260.65 -16181260.57 0.2664 0.2175

Mercury -49008-02-06 20:23 J -16178711.76 -16178711.65 -16178711.53 0.2669 0.1532

Mercury -49005-08-16 18:57 J -16177424.83 -16177424.71 -16177424.60 0.2667 0.0641

49TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 49th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-48998-08-10 12:42 J	-16174875.05	-16174874.97	-16174874.89	0.2662	0.1940		
Mercury	-48995-02-09 22:04 J	-16173960.72	-16173960.58	-16173960.44	0.2667	0.0257		
Mercury	-48992-08-19 14:23 J	-16172674.00	-16172673.90	-16172673.81	0.2668	0.1516		
Mercury	-48985-08-12 08:37 J	-16170124.25	-16170124.14	-16170124.03	0.2663	0.1008		
Mercury	-48982-02-12 23:59 J	-16169209.63	-16169209.50	-16169209.37	0.2665	0.1054		
Mercury	-48979-08-22 09:35 J	-16167923.15	-16167923.10	-16167923.05	0.2670	0.2377		
Mercury	-48975-02-05 01:11 J	-16166660.49	-16166660.45	-16166660.41	0.2671	0.2537		

Mercury -48972-08-15 04:18 J -16165373.44 -16165373.32 -16165373.20 0.2665 0.0116

Mercury -48969-02-16 02:23 J -16164458.46 -16164458.40 -16164458.35 0.2664 0.2414

Mercury -48962-02-08 02:23 J -16161909.52 -16161909.40 -16161909.28 0.2669 0.1310

Mercury -48959-08-17 23:59 J -16160622.61 -16160622.50 -16160622.39 0.2667 0.0799

Mercury -48952-08-10 17:45 J -16158072.85 -16158072.76 -16158072.67 0.2662 0.1771

Mercury -48949-02-11 03:49 J -16157158.48 -16157158.34 -16157158.20 0.2667 0.0059

Mercury -48946-08-20 19:25 J -16155871.78 -16155871.69 -16155871.60 0.2669 0.1675

Venus -48946-10-07 07:25 J -16155824.34 -16155824.19 -16155824.04 0.2697 0.0289

Mercury -48939-08-13 13:40 J -16153322.04 -16153321.93 -16153321.81 0.2664 0.0844

Mercury -48936-02-13 05:59 J -16152407.38 -16152407.25 -16152407.13 0.2665 0.1291

Mercury -48933-08-22 14:37 J -16151120.92 -16151120.89 -16151120.86 0.2670 0.2526

Mercury -48929-02-06 06:57 J -16149858.27 -16149858.21 -16149858.14 0.2671 0.2322

Mercury -48926-08-16 09:35 J -16148571.22 -16148571.10 -16148570.99 0.2665 0.0118

Mercury -48923-02-16 08:23 J -16147656.16 -16147656.15 -16147656.14 0.2663 0.2650

Mercury -48919-08-09 02:52 J -16146021.41 -16146021.38 -16146021.35 0.2661 0.2544

Mercury -48916-02-08 08:09 J -16145107.28 -16145107.16 -16145107.03 0.2669 0.1084

Mercury -48913-08-18 05:01 J -16143820.40 -16143820.29 -16143820.18 0.2667 0.0960

Mercury -48906-08-11 23:01 J -16141270.64 -16141270.54 -16141270.45 0.2662 0.1601

Mercury -48903-02-11 09:49 J -16140356.23 -16140356.09 -16140355.95 0.2667 0.0198

Mercury -48900-08-21 00:28 J -16139069.57 -16139069.48 -16139069.40 0.2669 0.1829

Mercury -48893-08-13 18:57 J -16136519.83 -16136519.71 -16136519.60 0.2664 0.0682

Mercury -48890-02-14 11:45 J -16135605.12 -16135605.01 -16135604.89 0.2665 0.1523

Mercury -48883-02-06 12:42 J -16133056.05 -16133055.97 -16133055.88 0.2670 0.2102

Mercury -48880-08-16 14:37 J -16131769.01 -16131768.89 -16131768.77 0.2666 0.0237

Mercury -48873-08-09 07:54 J -16129219.22 -16129219.17 -16129219.11 0.2661 0.2375

Mercury -48870-02-09 14:09 J -16128305.04 -16128304.91 -16128304.78 0.2668 0.0861

Mercury -48867-08-19 10:04 J -16127018.18 -16127018.08 -16127017.97 0.2667 0.1120

Mercury -48860-08-12 04:04 J -16124468.43 -16124468.33 -16124468.23 0.2663 0.1431

Mercury -48857-02-12 15:49 J -16123553.98 -16123553.84 -16123553.70 0.2667 0.0431

Mercury -48854-08-22 05:30 J -16122267.35 -16122267.27 -16122267.20 0.2669 0.1987

Mercury -48847-08-14 23:59 J -16119717.62 -16119717.50 -16119717.38 0.2664 0.0508

Mercury -48844-02-14 17:59 J -16118802.86 -16118802.75 -16118802.65 0.2665 0.1761

Mercury -48837-02-07 18:28 J -16116253.82 -16116253.73 -16116253.63 0.2670 0.1888

Mercury -48834-08-17 19:40 J -16114966.80 -16114966.68 -16114966.56 0.2666 0.0395

Venus -48832-04-04 10:47 J -16114371.19 -16114371.05 -16114370.91 0.2636 0.1404

Mercury -48827-08-10 13:11 J -16112417.02 -16112416.95 -16112416.88 0.2661 0.2198

Mercury -48824-02-09 19:54 J -16111502.80 -16111502.67 -16111502.53 0.2668 0.0633

Mercury -48821-08-19 15:06 J -16110215.97 -16110215.87 -16110215.77 0.2668 0.1277

Mercury -48814-08-13 09:06 J -16107666.22 -16107666.12 -16107666.01 0.2663 0.1265

Mercury -48811-02-12 21:49 J -16106751.73 -16106751.59 -16106751.46 0.2666 0.0663

Mercury -48808-08-22 10:33 J -16105465.13 -16105465.06 -16105464.99 0.2670 0.2141

Mercury -48801-08-15 05:01 J -16102915.41 -16102915.29 -16102915.17 0.2665 0.0344

Mercury -48798-02-15 23:45 J -16102000.60 -16102000.51 -16102000.41 0.2664 0.1998

Mercury -48791-02-08 00:28 J -16099451.59 -16099451.48 -16099451.37 0.2670 0.1666

Mercury -48788-08-18 00:42 J -16098164.58 -16098164.47 -16098164.35 0.2666 0.0555

Mercury -48781-08-10 18:13 J -16095614.81 -16095614.74 -16095614.66 0.2662 0.2031

Mercury -48778-02-11 01:54 J -16094700.56 -16094700.42 -16094700.29 0.2668 0.0422

Mercury -48775-08-20 20:09 J -16093413.76 -16093413.66 -16093413.56 0.2668 0.1436

Mercury -48768-08-13 14:23 J -16090864.01 -16090863.90 -16090863.79 0.2663 0.1092

Mercury -48765-02-14 03:35 J -16089949.48 -16089949.35 -16089949.21 0.2666 0.0893

Mercury -48762-08-23 15:35 J -16088662.91 -16088662.85 -16088662.80 0.2670 0.2294

Mercury -48758-02-06 05:01 J -16087400.29 -16087400.29 -16087400.28 0.2671 0.2668

Mercury -48755-08-16 10:04 J -16086113.19 -16086113.08 -16086112.96 0.2665 0.0198

Mercury -48752-02-16 05:59 J -16085198.33 -16085198.25 -16085198.18 0.2664 0.2234

Mercury -48745-02-09 06:13 J -16082649.36 -16082649.24 -16082649.12 0.2669 0.1447

Mercury -48742-08-19 05:45 J -16081362.37 -16081362.26 -16081362.14 0.2667 0.0717

Mercury -48735-08-11 23:30 J -16078812.61 -16078812.52 -16078812.44 0.2662 0.1854

Mercury -48732-02-11 07:40 J -16077898.32 -16077898.18 -16077898.04 0.2667 0.0188

Mercury -48729-08-21 01:11 J -16076611.54 -16076611.45 -16076611.35 0.2668 0.1590

Mercury -48722-08-14 19:25 J -16074061.80 -16074061.69 -16074061.58 0.2663 0.0927

Mercury -48719-02-14 09:35 J -16073147.23 -16073147.10 -16073146.97 0.2665 0.1119

Mercury -48716-08-23 20:37 J -16071860.69 -16071860.64 -16071860.60 0.2670 0.2447

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Mercury -48706-02-17 11:45 J -16068396.06 -16068396.01 -16068395.96 0.2664 0.2467

Venus -48703-10-07 10:33 J -16067068.21 -16067068.06 -16067067.91 0.2696 0.0149

Mercury -48702-08-10 08:23 J -16066761.16 -16066761.15 -16066761.13 0.2660 0.2633

Mercury -48699-02-09 11:59 J -16065847.12 -16065847.00 -16065846.87 0.2669 0.1230

Mercury -48696-08-19 10:47 J -16064560.16 -16064560.05 -16064559.93 0.2667 0.0880

Mercury -48689-08-12 04:33 J -16062010.40 -16062010.31 -16062010.21 0.2662 0.1688

Mercury -48686-02-12 13:40 J -16061096.07 -16061095.93 -16061095.79 0.2667 0.0061

Mercury -48683-08-22 06:13 J -16059809.32 -16059809.24 -16059809.15 0.2669 0.1748

Mercury -48676-08-15 00:42 J -16057259.59 -16057259.47 -16057259.36 0.2664 0.0762

Mercury -48673-02-15 15:35 J -16056344.97 -16056344.85 -16056344.73 0.2665 0.1354

Mercury -48670-08-25 01:40 J -16055058.46 -16055058.43 -16055058.41 0.2670 0.2598

Mercury -48666-02-07 16:47 J -16053795.88 -16053795.80 -16053795.73 0.2671 0.2241

Mercury -48663-08-17 20:23 J -16052508.77 -16052508.65 -16052508.53 0.2665 0.0151

Mercury -48656-08-10 13:40 J -16049958.97 -16049958.93 -16049958.89 0.2661 0.2456

Mercury -48653-02-10 17:59 J -16049044.88 -16049044.75 -16049044.62 0.2669 0.1007

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Mercury -48643-08-13 09:49 J -16045208.19 -16045208.09 -16045207.99 0.2662 0.1516

Mercury -48640-02-12 19:25 J -16044293.83 -16044293.69 -16044293.55 0.2667 0.0278

Mercury -48637-08-22 11:16 J -16043007.11 -16043007.03 -16043006.95 0.2669 0.1904

Mercury -48630-08-16 05:45 J -16040457.38 -16040457.26 -16040457.15 0.2664 0.0594

Mercury -48627-02-15 21:21 J -16039542.72 -16039542.61 -16039542.49 0.2665 0.1584

Mercury -48620-02-07 22:33 J -16036993.65 -16036993.56 -16036993.47 0.2670 0.2017

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Mercury -48610-08-11 18:42 J -16033156.78 -16033156.72 -16033156.66 0.2661 0.2289

Mercury -48607-02-10 23:45 J -16032242.64 -16032242.51 -16032242.38 0.2668 0.0786

Mercury -48604-08-20 21:06 J -16030955.73 -16030955.62 -16030955.52 0.2668 0.1198

Venus -48597-04-06 20:23 J -16028534.67 -16028534.65 -16028534.62 0.2636 0.2604

Mercury -48597-08-13 14:52 J -16028405.98 -16028405.88 -16028405.77 0.2663 0.1346

Mercury -48594-02-14 01:25 J -16027491.58 -16027491.44 -16027491.30 0.2667 0.0495

Mercury -48591-08-23 16:18 J -16026204.89 -16026204.82 -16026204.74 0.2669 0.2059

Venus -48589-04-04 09:35 J -16025615.24 -16025615.10 -16025614.97 0.2637 0.1480

Mercury -48584-08-16 10:47 J -16023655.17 -16023655.05 -16023654.93 0.2664 0.0428

Mercury -48581-02-17 03:21 J -16022740.46 -16022740.36 -16022740.25 0.2665 0.1820

Mercury -48574-02-09 04:18 J -16020191.42 -16020191.32 -16020191.22 0.2670 0.1801

Mercury -48571-08-19 06:28 J -16018904.34 -16018904.23 -16018904.11 0.2666 0.0475

Mercury -48564-08-11 23:59 J -16016354.57 -16016354.50 -16016354.43 0.2661 0.2112

Mercury -48561-02-12 05:45 J -16015440.40 -16015440.26 -16015440.12 0.2668 0.0557

Mercury -48558-08-22 02:09 J -16014153.51 -16014153.41 -16014153.31 0.2668 0.1354

Mercury -48551-08-14 20:09 J -16011603.77 -16011603.66 -16011603.56 0.2663 0.1184

Mercury -48548-02-14 07:25 J -16010689.33 -16010689.19 -16010689.06 0.2666 0.0728

Mercury -48545-08-23 21:21 J -16009402.67 -16009402.61 -16009402.54 0.2670 0.2213

Mercury -48538-08-17 15:49 J -16006852.95 -16006852.84 -16006852.72 0.2665 0.0279

Mercury -48535-02-17 09:21 J -16005938.20 -16005938.11 -16005938.02 0.2664 0.2047

Mercury -48528-02-09 10:04 J -16003389.19 -16003389.08 -16003388.96 0.2670 0.1586

Mercury -48525-08-19 11:30 J -16002102.13 -16002102.02 -16002101.90 0.2666 0.0643

Mercury -48518-08-13 05:01 J -15999552.37 -15999552.29 -15999552.21 0.2662 0.1946

Mercury -48515-02-12 11:30 J -15998638.16 -15998638.02 -15998637.88 0.2668 0.0337

Mercury -48512-08-22 07:11 J -15997351.30 -15997351.20 -15997351.11 0.2668 0.1509

Mercury -48505-08-15 01:11 J -15994801.56 -15994801.45 -15994801.34 0.2663 0.1011

Mercury -48502-02-15 13:25 J -15993887.08 -15993886.94 -15993886.81 0.2666 0.0961

Mercury -48499-08-25 02:23 J -15992600.45 -15992600.40 -15992600.34 0.2670 0.2366

Mercury -48495-02-07 14:52 J -15991337.91 -15991337.88 -15991337.84 0.2671 0.2579

Mercury -48492-08-17 21:06 J -15990050.74 -15990050.62 -15990050.50 0.2665 0.0124

Mercury -48489-02-18 15:21 J -15989135.93 -15989135.86 -15989135.79 0.2664 0.2287

Mercury -48482-02-10 16:04 J -15986586.95 -15986586.83 -15986586.71 0.2669 0.1367

Mercury -48479-08-20 16:33 J -15985299.92 -15985299.81 -15985299.69 0.2667 0.0798

Mercury -48472-08-13 10:18 J -15982750.16 -15982750.07 -15982749.98 0.2662 0.1771

Mercury -48469-02-13 17:30 J -15981835.91 -15981835.77 -15981835.63 0.2667 0.0119

Mercury -48466-08-23 12:13 J -15980549.08 -15980548.99 -15980548.90 0.2668 0.1665

Venus -48460-10-07 13:54 J -15978312.08 -15978311.92 -15978311.77 0.2696 0.0026

Mercury -48459-08-16 06:13 J -15977999.35 -15977999.24 -15977999.12 0.2664 0.0848

Mercury -48456-02-15 19:11 J -15977084.83 -15977084.70 -15977084.57 0.2666 0.1183

Mercury -48453-08-25 07:25 J -15975798.22 -15975798.19 -15975798.15 0.2670 0.2517

Mercury -48449-02-08 20:52 J -15974535.70 -15974535.63 -15974535.57 0.2671 0.2365

Mercury -48446-08-19 02:09 J -15973248.53 -15973248.41 -15973248.29 0.2665 0.0069

Mercury -48443-02-18 21:21 J -15972333.65 -15972333.61 -15972333.56 0.2664 0.2524

Mercury -48439-08-11 19:11 J -15970698.73 -15970698.70 -15970698.67 0.2660 0.2547

Mercury -48436-02-10 21:49 J -15969784.72 -15969784.59 -15969784.46 0.2669 0.1148

Mercury -48433-08-20 21:49 J -15968497.70 -15968497.59 -15968497.48 0.2667 0.0953

Mercury -48426-08-14 15:21 J -15965947.95 -15965947.86 -15965947.76 0.2662 0.1606

Mercury -48423-02-13 23:16 J -15965033.67 -15965033.53 -15965033.39 0.2667 0.0109

Mercury -48420-08-23 17:16 J -15963746.87 -15963746.78 -15963746.70 0.2669 0.1819

Mercury -48413-08-16 11:30 J -15961197.14 -15961197.02 -15961196.91 0.2664 0.0678

Mercury -48410-02-17 01:11 J -15960282.57 -15960282.45 -15960282.33 0.2665 0.1417

Mercury -48407-08-26 12:28 J -15958995.98 -15958995.98 -15958995.98 0.2670 0.2667

Mercury -48403-02-09 02:37 J -15957733.47 -15957733.39 -15957733.31 0.2671 0.2151

Mercury -48400-08-19 07:11 J -15956446.32 -15956446.20 -15956446.08 0.2665 0.0226

Mercury -48393-08-12 00:28 J -15953896.53 -15953896.48 -15953896.43 0.2661 0.2372

Mercury -48390-02-12 03:35 J -15952982.48 -15952982.35 -15952982.21 0.2669 0.0932

Mercury -48387-08-22 02:52 J -15951695.49 -15951695.38 -15951695.27 0.2667 0.1110

Mercury -48380-08-14 20:37 J -15949145.74 -15949145.64 -15949145.54 0.2662 0.1431

Mercury -48377-02-15 05:16 J -15948231.42 -15948231.28 -15948231.14 0.2667 0.0343

Mercury -48374-08-24 22:18 J -15946944.65 -15946944.57 -15946944.49 0.2669 0.1973

Mercury -48367-08-17 16:33 J -15944394.93 -15944394.81 -15944394.69 0.2664 0.0514

Mercury -48364-02-17 07:11 J -15943480.32 -15943480.20 -15943480.09 0.2665 0.1643

Mercury -48357-02-10 08:23 J -15940931.25 -15940931.15 -15940931.06 0.2670 0.1936

Venus -48354-04-07 19:25 J -15939778.73 -15939778.69 -15939778.65 0.2636 0.2551

Mercury -48354-08-20 12:13 J -15939644.10 -15939643.99 -15939643.87 0.2666 0.0402

Mercury -48347-08-13 05:30 J -15937094.33 -15937094.27 -15937094.20 0.2661 0.2203

Venus -48346-04-05 08:52 J -15936859.26 -15936859.13 -15936859.00 0.2637 0.1498

Mercury -48344-02-12 09:35 J -15936180.24 -15936180.10 -15936179.97 0.2668 0.0713

Mercury -48341-08-22 07:54 J -15934893.27 -15934893.17 -15934893.07 0.2668 0.1268

Mercury -48334-08-16 01:40 J -15932343.53 -15932343.43 -15932343.32 0.2663 0.1267

Mercury -48331-02-15 11:01 J -15931429.17 -15931429.04 -15931428.90 0.2666 0.0566

Mercury -48328-08-25 03:21 J -15930142.43 -15930142.36 -15930142.29 0.2669 0.2128

Mercury -48321-08-17 21:35 J -15927592.71 -15927592.60 -15927592.48 0.2664 0.0356

Mercury -48318-02-18 13:11 J -15926678.05 -15926677.95 -15926677.85 0.2665 0.1877

Mercury -48311-02-10 14:09 J -15924129.01 -15924128.91 -15924128.81 0.2670 0.1721

Mercury -48308-08-20 17:30 J -15922841.89 -15922841.77 -15922841.66 0.2666 0.0554

Mercury -48301-08-13 10:47 J -15920292.13 -15920292.05 -15920291.97 0.2661 0.2028

Mercury -48298-02-13 15:21 J -15919378.00 -15919377.86 -15919377.72 0.2668 0.0487

Mercury -48295-08-23 12:57 J -15918091.06 -15918090.96 -15918090.86 0.2668 0.1426

Mercury -48288-08-16 06:57 J -15915541.32 -15915541.21 -15915541.10 0.2663 0.1097

Mercury -48285-02-16 17:01 J -15914626.93 -15914626.79 -15914626.66 0.2666 0.0789

Mercury -48282-08-26 08:23 J -15913340.21 -15913340.15 -15913340.09 0.2670 0.2281

Mercury -48275-08-19 02:52 J -15910790.50 -15910790.38 -15910790.26 0.2665 0.0205

Mercury -48272-02-18 18:57 J -15909875.79 -15909875.71 -15909875.62 0.2664 0.2104

Mercury -48265-02-11 19:54 J -15907326.78 -15907326.67 -15907326.55 0.2670 0.1503

Mercury -48262-08-21 22:33 J -15906039.68 -15906039.56 -15906039.45 0.2666 0.0710

Mercury -48255-08-14 16:04 J -15903489.92 -15903489.83 -15903489.75 0.2662 0.1862

Mercury -48252-02-13 21:21 J -15902575.75 -15902575.61 -15902575.48 0.2668 0.0279

Mercury -48249-08-23 17:59 J -15901288.84 -15901288.75 -15901288.65 0.2668 0.1582

Mercury -48242-08-17 11:59 J -15898739.11 -15898739.00 -15898738.89 0.2663 0.0929

Mercury -48239-02-16 23:01 J -15897824.68 -15897824.54 -15897824.41 0.2666 0.1020

Mercury -48236-08-26 13:26 J -15896537.99 -15896537.94 -15896537.90 0.2670 0.2433

Mercury -48232-02-09 00:57 J -15895275.51 -15895275.46 -15895275.42 0.2671 0.2487

Mercury -48229-08-19 07:54 J -15893988.29 -15893988.17 -15893988.05 0.2665 0.0023

Mercury -48226-02-20 00:57 J -15893073.52 -15893073.46 -15893073.39 0.2664 0.2338

Mercury -48222-08-13 00:57 J -15891438.48 -15891438.46 -15891438.45 0.2660 0.2636

Mercury -48219-02-12 01:54 J -15890524.54 -15890524.42 -15890524.30 0.2669 0.1286

Venus -48217-10-07 17:02 J -15889555.94 -15889555.79 -15889555.63 0.2695 0.0172

Mercury -48216-08-22 03:35 J -15889237.46 -15889237.35 -15889237.24 0.2667 0.0867

Mercury -48209-08-14 21:06 J -15886687.71 -15886687.62 -15886687.53 0.2662 0.1688

Mercury -48206-02-15 03:06 J -15885773.51 -15885773.37 -15885773.23 0.2667 0.0061

Mercury -48203-08-24 23:02 J -15884486.63 -15884486.54 -15884486.45 0.2668 0.1737

Mercury -48196-08-17 17:02 J -15881936.90 -15881936.79 -15881936.67 0.2663 0.0772

Mercury -48193-02-18 04:47 J -15881022.42 -15881022.30 -15881022.17 0.2666 0.1245

Mercury -48190-08-27 18:28 J -15879735.76 -15879735.73 -15879735.70 0.2670 0.2585

Mercury -48186-02-10 06:42 J -15878473.29 -15878473.22 -15878473.15 0.2671 0.2278

Mercury -48183-08-20 12:57 J -15877186.08 -15877185.96 -15877185.84 0.2665 0.0155

Mercury -48180-02-20 06:57 J -15876271.24 -15876271.21 -15876271.18 0.2664 0.2567

Mercury -48176-08-13 05:59 J -15874636.29 -15874636.25 -15874636.20 0.2661 0.2461

Mercury -48173-02-13 07:40 J -15873722.31 -15873722.18 -15873722.06 0.2669 0.1070

Mercury -48170-08-23 08:38 J -15872435.25 -15872435.14 -15872435.03 0.2667 0.1029

Mercury -48163-08-16 02:09 J -15869885.50 -15869885.41 -15869885.31 0.2662 0.1525

Mercury -48160-02-15 09:06 J -15868971.26 -15868971.12 -15868970.98 0.2667 0.0192

Mercury -48157-08-25 04:04 J -15867684.41 -15867684.33 -15867684.25 0.2669 0.1891

Mercury -48150-08-18 22:18 J -15865134.69 -15865134.57 -15865134.45 0.2664 0.0598

Mercury -48147-02-18 10:47 J -15864220.17 -15864220.05 -15864219.93 0.2665 0.1476

Mercury -48140-02-10 12:28 J -15861671.07 -15861670.98 -15861670.90 0.2671 0.2068

Mercury -48137-08-20 17:59 J -15860383.86 -15860383.75 -15860383.63 0.2665 0.0317

Mercury -48130-08-14 11:16 J -15857834.09 -15857834.03 -15857833.97 0.2661 0.2288

Mercury -48127-02-13 13:26 J -15856920.07 -15856919.94 -15856919.81 0.2669 0.0852

Mercury -48124-08-23 13:40 J -15855633.03 -15855632.93 -15855632.82 0.2667 0.1184

Mercury -48117-08-16 07:26 J -15853083.29 -15853083.19 -15853083.09 0.2662 0.1350

Mercury -48114-02-16 14:52 J -15852169.02 -15852168.88 -15852168.74 0.2667 0.0406

Venus -48111-04-07 18:42 J -15851022.77 -15851022.72 -15851022.67 0.2637 0.2497

Mercury -48111-08-26 09:06 J -15850882.19 -15850882.12 -15850882.04 0.2669 0.2049

Mercury -48104-08-19 03:21 J -15848332.48 -15848332.36 -15848332.24 0.2664 0.0437

Venus -48103-04-05 07:54 J -15848103.30 -15848103.17 -15848103.04 0.2638 0.1541

Mercury -48101-02-19 16:47 J -15847417.91 -15847417.80 -15847417.69 0.2665 0.1702

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Mercury -48084-08-14 16:18 J -15841031.89 -15841031.82 -15841031.74 0.2661 0.2119

Mercury -48081-02-14 19:11 J -15840117.83 -15840117.70 -15840117.56 0.2668 0.0638

Mercury -48078-08-24 18:42 J -15838830.82 -15838830.72 -15838830.61 0.2668 0.1344

Mercury -48071-08-17 12:42 J -15836281.08 -15836280.97 -15836280.87 0.2663 0.1186

Mercury -48068-02-16 20:52 J -15835366.77 -15835366.63 -15835366.50 0.2667 0.0630

Mercury -48065-08-26 14:09 J -15834079.97 -15834079.91 -15834079.84 0.2669 0.2198

Mercury -48058-08-20 08:38 J -15831530.26 -15831530.14 -15831530.02 0.2664 0.0277

Mercury -48055-02-19 22:47 J -15830615.65 -15830615.55 -15830615.46 0.2665 0.1934

Mercury -48048-02-11 23:59 J -15828066.61 -15828066.50 -15828066.39 0.2670 0.1638

Mercury -48045-08-22 04:18 J -15826779.44 -15826779.32 -15826779.21 0.2666 0.0623

Mercury -48038-08-15 21:35 J -15824229.68 -15824229.60 -15824229.52 0.2661 0.1946

Mercury -48035-02-15 01:11 J -15823315.59 -15823315.45 -15823315.31 0.2668 0.0417

Mercury -48032-08-24 23:45 J -15822028.60 -15822028.51 -15822028.41 0.2668 0.1500

Mercury -48025-08-17 17:45 J -15819478.87 -15819478.76 -15819478.65 0.2663 0.1017

Mercury -48022-02-18 02:38 J -15818564.52 -15818564.39 -15818564.25 0.2666 0.0852

Mercury -48019-08-27 19:26 J -15817277.75 -15817277.69 -15817277.64 0.2670 0.2352

Mercury -48015-02-10 05:02 J -15816015.32 -15816015.29 -15816015.27 0.2672 0.2611

Mercury -48012-08-20 13:40 J -15814728.05 -15814727.93 -15814727.81 0.2665 0.0107

Mercury -48009-02-21 04:33 J -15813813.39 -15813813.31 -15813813.23 0.2664 0.2157

Mercury -48002-02-13 05:45 J -15811264.38 -15811264.26 -15811264.14 0.2670 0.1427

48TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 48th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-47999-08-23 09:21 J	-15809977.22	-15809977.11	-15809976.99	0.2666	0.0787		
Mercury	-47992-08-16 02:38 J	-15807427.47	-15807427.39	-15807427.30	0.2662	0.1780		
Mercury	-47989-02-16 06:57 J	-15806513.35	-15806513.21	-15806513.07	0.2668	0.0195		
Mercury	-47986-08-26 05:02 J	-15805226.38	-15805226.29	-15805226.20	0.2668	0.1653		
Mercury	-47979-08-18 22:47 J	-15802676.66	-15802676.55	-15802676.43	0.2663	0.0853		
Mercury	-47976-02-18 08:38 J	-15801762.27	-15801762.14	-15801762.01	0.2666	0.1077		
Venus	-47974-10-08 20:09 J	-15800799.81	-15800799.66	-15800799.51	0.2694	0.0332		
Mercury	-47973-08-28 00:28 J	-15800475.52	-15800475.48	-15800475.45	0.2670	0.2503		
Mercury	-47969-02-11 10:47 J	-15799213.11	-15799213.05	-15799213.00	0.2671	0.2403		
Mercury	-47966-08-21 18:42 J	-15797925.84	-15797925.72	-15797925.60	0.2665	0.0076		
Mercury	-47963-02-21 10:33 J	-15797011.12	-15797011.06	-15797011.00	0.2664	0.2392		
Mercury	-47959-08-14 11:45 J	-15795376.05	-15795376.01	-15795375.98	0.2660	0.2552		
Mercury	-47956-02-13 11:30 J	-15794462.14	-15794462.02	-15794461.89	0.2669	0.1211		
Mercury	-47953-08-23 14:23 J	-15793175.01	-15793174.90	-15793174.79	0.2667	0.0943		
Mercury	-47946-08-17 07:54 J	-15790625.27	-15790625.17	-15790625.07	0.2662	0.1607		
Mercury	-47943-02-16 12:57 J	-15789711.10	-15789710.96	-15789710.82	0.2667	0.0062		
Mercury	-47940-08-26 10:04 J	-15788424.17	-15788424.08	-15788424.00	0.2668	0.1809		
Mercury	-47933-08-19 04:04 J	-15785874.45	-15785874.33	-15785874.22	0.2664	0.0688		
Mercury	-47930-02-19 14:23 J	-15784960.02	-15784959.90	-15784959.77	0.2666	0.1303		
Mercury	-47927-08-29 05:30 J	-15783673.28	-15783673.27	-15783673.26	0.2670	0.2654		
Mercury	-47923-02-11 16:33 J	-15782410.89	-15782410.81	-15782410.74	0.2671	0.2192		
Mercury	-47920-08-21 23:45 J	-15781123.62	-15781123.51	-15781123.39	0.2665	0.0241		

Mercury -47917-02-22 16:33 J -15780208.83 -15780208.81 -15780208.79 0.2664 0.2621

Mercury -47913-08-14 16:47 J -15778573.85 -15778573.80 -15778573.75 0.2661 0.2379

Mercury -47910-02-14 17:30 J -15777659.90 -15777659.77 -15777659.65 0.2669 0.0995

Mercury -47907-08-24 19:40 J -15776372.79 -15776372.68 -15776372.58 0.2667 0.1105

Mercury -47900-08-17 13:11 J -15773823.05 -15773822.95 -15773822.85 0.2662 0.1441

Mercury -47897-02-17 18:42 J -15772908.86 -15772908.72 -15772908.58 0.2667 0.0249

Mercury -47894-08-27 15:06 J -15771621.95 -15771621.87 -15771621.79 0.2669 0.1960

Mercury -47887-08-20 09:06 J -15769072.24 -15769072.12 -15769072.00 0.2664 0.0521

Mercury -47884-02-19 20:23 J -15768157.76 -15768157.65 -15768157.53 0.2665 0.1534

Mercury -47877-02-12 22:18 J -15765608.66 -15765608.57 -15765608.48 0.2671 0.1981

Mercury -47874-08-23 05:02 J -15764321.41 -15764321.29 -15764321.17 0.2665 0.0382

Venus -47868-04-07 17:45 J -15762266.81 -15762266.76 -15762266.70 0.2638 0.2456

Mercury -47867-08-15 22:04 J -15761771.65 -15761771.58 -15761771.52 0.2661 0.2208

Mercury -47864-02-14 23:16 J -15760857.66 -15760857.53 -15760857.40 0.2669 0.0777

Mercury -47861-08-25 00:42 J -15759570.58 -15759570.47 -15759570.37 0.2667 0.1257

Venus -47860-04-05 07:26 J -15759347.32 -15759347.19 -15759347.06 0.2639 0.1542

Mercury -47854-08-18 18:14 J -15757020.85 -15757020.74 -15757020.63 0.2663 0.1272

Mercury -47851-02-18 00:42 J -15756106.61 -15756106.47 -15756106.34 0.2667 0.0476

Mercury -47848-08-27 20:09 J -15754819.73 -15754819.66 -15754819.59 0.2669 0.2115

Mercury -47841-08-20 14:09 J -15752270.02 -15752269.91 -15752269.79 0.2664 0.0370

Mercury -47838-02-21 02:23 J -15751355.51 -15751355.40 -15751355.29 0.2665 0.1758

Mercury -47831-02-13 04:04 J -15748806.43 -15748806.33 -15748806.23 0.2670 0.1775

Mercury -47828-08-23 10:04 J -15747519.20 -15747519.08 -15747518.96 0.2666 0.0539

Mercury -47821-08-16 03:06 J -15744969.44 -15744969.37 -15744969.29 0.2661 0.2037

Mercury -47818-02-16 05:02 J -15744055.43 -15744055.29 -15744055.15 0.2668 0.0561

Mercury -47815-08-26 05:45 J -15742768.36 -15742768.26 -15742768.16 0.2668 0.1413

Mercury -47808-08-18 23:30 J -15740218.63 -15740218.52 -15740218.41 0.2663 0.1110

Mercury -47805-02-19 06:28 J -15739304.36 -15739304.23 -15739304.09 0.2666 0.0695

Mercury -47802-08-29 01:11 J -15738017.51 -15738017.45 -15738017.39 0.2669 0.2265

Mercury -47795-08-21 19:26 J -15735467.81 -15735467.69 -15735467.57 0.2665 0.0200

Mercury -47792-02-21 08:23 J -15734553.24 -15734553.15 -15734553.06 0.2665 0.1989

Mercury -47785-02-14 09:50 J -15732004.20 -15732004.09 -15732003.98 0.2670 0.1561

Mercury -47782-08-24 15:06 J -15730716.98 -15730716.87 -15730716.75 0.2666 0.0697

Mercury -47775-08-17 08:23 J -15728167.23 -15728167.15 -15728167.06 0.2661 0.1865

Mercury -47772-02-16 11:02 J -15727253.18 -15727253.04 -15727252.91 0.2668 0.0352

Mercury -47769-08-26 10:47 J -15725966.14 -15725966.05 -15725965.95 0.2668 0.1567

Mercury -47762-08-20 04:33 J -15723416.42 -15723416.31 -15723416.20 0.2663 0.0937

Mercury -47759-02-19 12:28 J -15722502.12 -15722501.98 -15722501.85 0.2666 0.0917

Mercury -47756-08-29 06:14 J -15721215.29 -15721215.24 -15721215.19 0.2670 0.2419

Mercury -47752-02-11 14:52 J -15719952.92 -15719952.88 -15719952.84 0.2671 0.2529

Mercury -47749-08-22 00:28 J -15718665.60 -15718665.48 -15718665.36 0.2665 0.0037

Mercury -47746-02-22 14:23 J -15717750.98 -15717750.90 -15717750.83 0.2664 0.2216

Mercury -47742-08-15 17:16 J -15716115.79 -15716115.78 -15716115.77 0.2660 0.2643

Mercury -47739-02-14 15:35 J -15715201.97 -15715201.85 -15715201.73 0.2670 0.1351

Mercury -47736-08-24 20:23 J -15713914.77 -15713914.65 -15713914.54 0.2667 0.0863

Venus -47731-10-08 23:16 J -15712043.68 -15712043.53 -15712043.38 0.2694 0.0488

Mercury -47729-08-17 13:40 J -15711365.03 -15711364.93 -15711364.84 0.2662 0.1697

Mercury -47726-02-17 16:47 J -15710450.94 -15710450.80 -15710450.66 0.2668 0.0141

Mercury -47723-08-27 15:50 J -15709163.93 -15709163.84 -15709163.75 0.2668 0.1722

Mercury -47716-08-20 09:50 J -15706614.21 -15706614.09 -15706613.98 0.2663 0.0779

Mercury -47713-02-20 18:14 J -15705699.86 -15705699.74 -15705699.61 0.2666 0.1140

Mercury -47710-08-30 11:16 J -15704413.06 -15704413.03 -15704413.00 0.2670 0.2565

Mercury -47706-02-12 20:38 J -15703150.71 -15703150.64 -15703150.58 0.2671 0.2321

Mercury -47703-08-23 05:30 J -15701863.38 -15701863.27 -15701863.15 0.2665 0.0169

Mercury -47700-02-22 20:09 J -15700948.71 -15700948.66 -15700948.60 0.2664 0.2445

Mercury -47696-08-15 22:18 J -15699313.61 -15699313.57 -15699313.52 0.2660 0.2470

Mercury -47693-02-15 21:21 J -15698399.73 -15698399.61 -15698399.48 0.2669 0.1135

Mercury -47690-08-26 01:26 J -15697112.55 -15697112.44 -15697112.33 0.2667 0.1015

Mercury -47683-08-18 18:42 J -15694562.82 -15694562.72 -15694562.62 0.2662 0.1529

Mercury -47680-02-17 22:33 J -15693648.70 -15693648.56 -15693648.42 0.2667 0.0096

Mercury -47677-08-27 20:52 J -15692361.71 -15692361.63 -15692361.54 0.2669 0.1877

Mercury -47670-08-21 14:52 J -15689812.00 -15689811.88 -15689811.77 0.2664 0.0610

Mercury -47667-02-21 00:14 J -15688897.61 -15688897.49 -15688897.37 0.2665 0.1362

Mercury -47660-02-13 02:23 J -15686348.48 -15686348.40 -15686348.32 0.2671 0.2111

Mercury -47657-08-23 10:47 J -15685061.17 -15685061.05 -15685060.93 0.2665 0.0294

Mercury -47650-08-17 03:35 J -15682511.41 -15682511.35 -15682511.29 0.2661 0.2298

Mercury -47647-02-16 03:06 J -15681597.50 -15681597.37 -15681597.24 0.2669 0.0925

Mercury -47644-08-26 06:28 J -15680310.34 -15680310.23 -15680310.12 0.2667 0.1173

Mercury -47637-08-18 23:59 J -15677760.61 -15677760.50 -15677760.40 0.2662 0.1364

Mercury -47634-02-19 04:33 J -15676846.45 -15676846.31 -15676846.17 0.2667 0.0320

Mercury -47631-08-29 01:54 J -15675559.49 -15675559.42 -15675559.34 0.2669 0.2031

Venus -47625-04-07 17:16 J -15673510.84 -15673510.78 -15673510.72 0.2638 0.2436

Mercury -47624-08-21 19:54 J -15673009.79 -15673009.67 -15673009.55 0.2664 0.0446

Mercury -47621-02-22 06:14 J -15672095.36 -15672095.24 -15672095.13 0.2665 0.1588

Venus -47617-04-05 06:42 J -15670591.35 -15670591.22 -15670591.08 0.2640 0.1562

Mercury -47614-02-14 08:09 J -15669546.26 -15669546.16 -15669546.07 0.2671 0.1902

Mercury -47611-08-24 15:50 J -15668258.96 -15668258.84 -15668258.72 0.2666 0.0452

Mercury -47604-08-17 08:52 J -15665709.20 -15665709.13 -15665709.06 0.2661 0.2128

Mercury -47601-02-17 09:06 J -15664795.26 -15664795.12 -15664794.99 0.2669 0.0702

Mercury -47598-08-27 11:30 J -15663508.12 -15663508.02 -15663507.92 0.2667 0.1326

Mercury -47591-08-20 05:02 J -15660958.40 -15660958.29 -15660958.18 0.2663 0.1194

Mercury -47588-02-19 10:18 J -15660044.20 -15660044.07 -15660043.93 0.2667 0.0535

Mercury -47585-08-29 07:11 J -15658757.27 -15658757.20 -15658757.14 0.2669 0.2186

Mercury -47578-08-23 01:11 J -15656207.57 -15656207.45 -15656207.34 0.2664 0.0299

Mercury -47575-02-22 11:59 J -15655293.10 -15655293.00 -15655292.90 0.2665 0.1812

Mercury -47568-02-14 13:54 J -15652744.03 -15652743.92 -15652743.82 0.2670 0.1694

Mercury -47565-08-24 20:52 J -15651456.74 -15651456.63 -15651456.51 0.2666 0.0616

Mercury -47558-08-18 13:54 J -15648907.00 -15648906.92 -15648906.84 0.2661 0.1958

Mercury -47555-02-17 14:52 J -15647993.02 -15647992.88 -15647992.74 0.2668 0.0491

Mercury -47552-08-27 16:33 J -15646705.90 -15646705.81 -15646705.71 0.2668 0.1485

Mercury -47545-08-20 10:18 J -15644156.19 -15644156.07 -15644155.96 0.2663 0.1031

Mercury -47542-02-20 16:18 J -15643241.96 -15643241.82 -15643241.69 0.2666 0.0758

Mercury -47539-08-30 11:59 J -15641955.05 -15641955.00 -15641954.94 0.2669 0.2333

Mercury -47535-02-12 18:57 J -15640692.72 -15640692.71 -15640692.70 0.2672 0.2652

Mercury -47532-08-23 06:14 J -15639405.36 -15639405.24 -15639405.12 0.2664 0.0119

Mercury -47529-02-23 17:59 J -15638490.84 -15638490.75 -15638490.66 0.2665 0.2040

Mercury -47522-02-15 19:40 J -15635941.79 -15635941.68 -15635941.57 0.2670 0.1482

Mercury -47519-08-26 02:09 J -15634654.53 -15634654.41 -15634654.30 0.2666 0.0775

Mercury -47512-08-18 19:11 J -15632104.79 -15632104.70 -15632104.61 0.2662 0.1789

Mercury -47509-02-18 20:38 J -15631190.78 -15631190.64 -15631190.50 0.2668 0.0279

Mercury -47506-08-28 21:35 J -15629903.69 -15629903.60 -15629903.50 0.2668 0.1636

Mercury -47499-08-21 15:21 J -15627353.97 -15627353.86 -15627353.75 0.2663 0.0864

Mercury -47496-02-20 22:04 J -15626439.71 -15626439.58 -15626439.45 0.2666 0.0976

Mercury -47493-08-30 17:16 J -15625152.82 -15625152.78 -15625152.74 0.2670 0.2487

Mercury -47489-02-14 00:42 J -15623890.52 -15623890.47 -15623890.42 0.2671 0.2444

Venus -47488-10-09 02:09 J -15623287.56 -15623287.41 -15623287.26 0.2693 0.0640

Mercury -47486-08-24 11:16 J -15622603.15 -15622603.03 -15622602.91 0.2665 0.0088

Mercury -47483-02-23 23:59 J -15621688.58 -15621688.50 -15621688.43 0.2664 0.2265

Mercury -47479-08-17 04:04 J -15620053.36 -15620053.33 -15620053.31 0.2660 0.2563

Mercury -47476-02-16 01:26 J -15619139.56 -15619139.44 -15619139.32 0.2670 0.1276

Mercury -47473-08-26 07:11 J -15617852.31 -15617852.20 -15617852.09 0.2666 0.0928

Mercury -47466-08-20 00:14 J -15615302.58 -15615302.49 -15615302.39 0.2662 0.1621

Mercury -47463-02-19 02:38 J -15614388.53 -15614388.39 -15614388.25 0.2668 0.0097

Mercury -47460-08-29 02:52 J -15613101.47 -15613101.38 -15613101.30 0.2668 0.1793

Mercury -47453-08-21 20:23 J -15610551.76 -15610551.65 -15610551.53 0.2663 0.0705

Mercury -47450-02-22 04:04 J -15609637.46 -15609637.33 -15609637.21 0.2666 0.1198

Mercury -47447-08-31 22:18 J -15608350.59 -15608350.57 -15608350.56 0.2670 0.2633

Mercury -47443-02-14 06:28 J -15607088.30 -15607088.23 -15607088.16 0.2671 0.2244

Mercury -47440-08-24 16:33 J -15605800.93 -15605800.81 -15605800.69 0.2665 0.0219

Mercury -47437-02-25 05:45 J -15604886.30 -15604886.26 -15604886.21 0.2664 0.2492

Mercury -47433-08-17 09:06 J -15603251.17 -15603251.12 -15603251.07 0.2660 0.2388

Mercury -47430-02-17 07:11 J -15602337.33 -15602337.20 -15602337.07 0.2669 0.1060

Mercury -47427-08-27 12:14 J -15601050.10 -15601049.99 -15601049.88 0.2667 0.1082

Mercury -47420-08-20 05:30 J -15598500.37 -15598500.27 -15598500.17 0.2662 0.1451

Mercury -47417-02-20 08:23 J -15597586.29 -15597586.15 -15597586.01 0.2667 0.0157

Mercury -47414-08-30 07:54 J -15596299.25 -15596299.17 -15596299.09 0.2669 0.1944

Mercury -47407-08-23 01:40 J -15593749.55 -15593749.43 -15593749.31 0.2664 0.0533

Mercury -47404-02-22 09:50 J -15592835.21 -15592835.09 -15592834.97 0.2666 0.1417

Mercury -47397-02-15 12:14 J -15590286.08 -15590285.99 -15590285.90 0.2671 0.2033

Mercury -47394-08-25 21:35 J -15588998.72 -15588998.60 -15588998.48 0.2665 0.0363

Mercury -47387-08-18 14:23 J -15586448.97 -15586448.90 -15586448.84 0.2661 0.2221

Mercury -47384-02-17 12:57 J -15585535.09 -15585534.96 -15585534.83 0.2669 0.0854

Venus -47382-04-08 16:33 J -15584754.88 -15584754.81 -15584754.74 0.2639 0.2391

Mercury -47381-08-27 17:16 J -15584247.88 -15584247.78 -15584247.67 0.2667 0.1242

Venus -47374-04-06 06:28 J -15581835.36 -15581835.23 -15581835.10 0.2640 0.1553

Mercury -47374-08-21 10:47 J -15581698.16 -15581698.05 -15581697.95 0.2662 0.1285

Mercury -47371-02-20 14:09 J -15580784.05 -15580783.91 -15580783.77 0.2667 0.0375

Mercury -47368-08-30 12:57 J -15579497.03 -15579496.96 -15579496.89 0.2669 0.2096

Mercury -47361-08-23 06:42 J -15576947.34 -15576947.22 -15576947.10 0.2664 0.0380

Mercury -47358-02-23 15:50 J -15576032.95 -15576032.84 -15576032.73 0.2665 0.1640

Mercury -47351-02-15 17:59 J -15573483.85 -15573483.75 -15573483.65 0.2671 0.1824

Mercury -47348-08-26 02:38 J -15572196.50 -15572196.39 -15572196.27 0.2666 0.0527

Mercury -47341-08-18 19:26 J -15569646.76 -15569646.69 -15569646.61 0.2661 0.2051

Mercury -47338-02-18 18:57 J -15568732.85 -15568732.71 -15568732.58 0.2669 0.0640

Mercury -47335-08-28 22:18 J -15567445.67 -15567445.57 -15567445.47 0.2667 0.1397

Mercury -47328-08-21 15:50 J -15564895.95 -15564895.84 -15564895.73 0.2663 0.1119

Mercury -47325-02-21 19:54 J -15563981.80 -15563981.67 -15563981.53 0.2667 0.0596

Mercury -47322-08-31 17:59 J -15562694.81 -15562694.75 -15562694.69 0.2669 0.2248

Mercury -47315-08-24 11:59 J -15560145.12 -15560145.00 -15560144.88 0.2664 0.0215

Mercury -47312-02-23 21:35 J -15559230.70 -15559230.60 -15559230.50 0.2665 0.1861

Mercury -47305-02-16 23:45 J -15556681.62 -15556681.51 -15556681.40 0.2670 0.1618

Mercury -47302-08-27 07:54 J -15555394.29 -15555394.17 -15555394.06 0.2666 0.0687

Mercury -47295-08-20 00:42 J -15552844.55 -15552844.47 -15552844.38 0.2661 0.1881

Mercury -47292-02-19 00:42 J -15551930.61 -15551930.47 -15551930.34 0.2668 0.0425

Mercury -47289-08-29 03:35 J -15550643.45 -15550643.35 -15550643.26 0.2668 0.1553

Mercury -47282-08-22 21:06 J -15548093.74 -15548093.62 -15548093.51 0.2663 0.0957

Mercury -47279-02-22 01:54 J -15547179.55 -15547179.42 -15547179.29 0.2667 0.0813

Mercury -47276-08-31 23:02 J -15545892.59 -15545892.54 -15545892.49 0.2669 0.2398

Mercury -47272-02-14 04:47 J -15544630.33 -15544630.30 -15544630.26 0.2672 0.2572

Mercury -47269-08-24 17:02 J -15543342.91 -15543342.79 -15543342.67 0.2664 0.0048

Mercury -47266-02-25 03:35 J -15542428.44 -15542428.35 -15542428.26 0.2665 0.2086

Mercury -47262-08-18 09:21 J -15540793.11 -15540793.11 -15540793.10 0.2660 0.2656

Mercury -47259-02-17 05:30 J -15539879.39 -15539879.27 -15539879.15 0.2670 0.1407

Mercury -47256-08-27 12:57 J -15538592.08 -15538591.96 -15538591.85 0.2666 0.0841

Mercury -47249-08-20 05:59 J -15536042.35 -15536042.25 -15536042.16 0.2662 0.1713

Mercury -47246-02-20 06:28 J -15535128.37 -15535128.23 -15535128.09 0.2668 0.0208

Venus -47245-10-09 05:02 J -15534531.44 -15534531.29 -15534531.14 0.2692 0.0783

Mercury -47243-08-30 08:38 J -15533841.23 -15533841.14 -15533841.05 0.2668 0.1704

Mercury -47236-08-23 02:09 J -15531291.53 -15531291.41 -15531291.30 0.2663 0.0789

Mercury -47233-02-23 07:40 J -15530377.30 -15530377.18 -15530377.05 0.2666 0.1035

Mercury -47230-09-02 04:04 J -15529090.36 -15529090.33 -15529090.30 0.2670 0.2550

Mercury -47226-02-15 10:33 J -15527828.12 -15527828.06 -15527828.00 0.2671 0.2365

Mercury -47223-08-25 22:04 J -15526540.70 -15526540.58 -15526540.46 0.2665 0.0138

Mercury -47220-02-25 09:35 J -15525626.17 -15525626.10 -15525626.03 0.2664 0.2315

Mercury -47216-08-18 14:38 J -15523990.93 -15523990.89 -15523990.85 0.2660 0.2486

Mercury -47213-02-18 11:16 J -15523077.15 -15523077.03 -15523076.91 0.2669 0.1203

Mercury -47210-08-28 17:59 J -15521789.86 -15521789.75 -15521789.64 0.2667 0.0995

Mercury -47203-08-21 11:02 J -15519240.13 -15519240.04 -15519239.94 0.2662 0.1544

Mercury -47200-02-20 12:14 J -15518326.13 -15518325.99 -15518325.85 0.2668 0.0006

Mercury -47197-08-30 13:40 J -15517039.01 -15517038.93 -15517038.85 0.2668 0.1858

Mercury -47190-08-24 07:11 J -15514489.31 -15514489.20 -15514489.08 0.2664 0.0633

Mercury -47187-02-23 13:40 J -15513575.05 -15513574.93 -15513574.81 0.2666 0.1255

Mercury -47180-02-15 16:18 J -15511025.90 -15511025.82 -15511025.74 0.2671 0.2163

Mercury -47177-08-26 03:21 J -15509738.48 -15509738.36 -15509738.24 0.2665 0.0281

Mercury -47174-02-26 15:35 J -15508823.89 -15508823.85 -15508823.81 0.2664 0.2539

Mercury -47170-08-19 19:54 J -15507188.73 -15507188.67 -15507188.61 0.2661 0.2310

Mercury -47167-02-18 17:02 J -15506274.92 -15506274.79 -15506274.66 0.2669 0.0991

Mercury -47164-08-28 23:02 J -15504987.64 -15504987.54 -15504987.43 0.2667 0.1152

Mercury -47157-08-21 16:18 J -15502437.92 -15502437.82 -15502437.72 0.2662 0.1377

Mercury -47154-02-21 17:59 J -15501523.88 -15501523.75 -15501523.61 0.2667 0.0232

Mercury -47151-08-31 18:42 J -15500236.80 -15500236.72 -15500236.64 0.2669 0.2007

Mercury -47144-08-24 12:28 J -15497687.10 -15497686.98 -15497686.86 0.2664 0.0463

Mercury -47141-02-24 19:26 J -15496772.80 -15496772.69 -15496772.57 0.2666 0.1473

Venus -47139-04-08 16:18 J -15495998.89 -15495998.82 -15495998.76 0.2640 0.2394

Mercury -47134-02-16 22:04 J -15494223.67 -15494223.58 -15494223.49 0.2671 0.1958

Venus -47131-04-06 05:59 J -15493079.38 -15493079.25 -15493079.12 0.2641 0.1561

Mercury -47131-08-27 08:23 J -15492936.27 -15492936.15 -15492936.03 0.2665 0.0435

Mercury -47124-08-20 01:11 J -15490386.52 -15490386.45 -15490386.38 0.2661 0.2146

Mercury -47121-02-19 22:47 J -15489472.68 -15489472.55 -15489472.42 0.2669 0.0785

Mercury -47118-08-30 04:18 J -15488185.43 -15488185.32 -15488185.22 0.2667 0.1311

Mercury -47111-08-22 21:35 J -15485635.71 -15485635.60 -15485635.50 0.2662 0.1214

Mercury -47108-02-21 23:59 J -15484721.64 -15484721.50 -15484721.36 0.2667 0.0437

Mercury -47105-08-31 23:45 J -15483434.58 -15483434.51 -15483434.44 0.2669 0.2161

Mercury -47098-08-25 17:30 J -15480884.89 -15480884.77 -15480884.65 0.2664 0.0307

Mercury -47095-02-25 01:26 J -15479970.55 -15479970.44 -15479970.33 0.2665 0.1693

Mercury -47088-02-17 03:50 J -15477421.44 -15477421.34 -15477421.24 0.2670 0.1755

Mercury -47085-08-27 13:26 J -15476134.05 -15476133.94 -15476133.82 0.2666 0.0596

Mercury -47078-08-21 06:14 J -15473584.32 -15473584.24 -15473584.16 0.2661 0.1973

Mercury -47075-02-20 04:33 J -15472670.44 -15472670.31 -15472670.17 0.2669 0.0572

Mercury -47072-08-30 09:21 J -15471383.21 -15471383.11 -15471383.01 0.2668 0.1463

Mercury -47065-08-23 02:38 J -15468833.50 -15468833.39 -15468833.28 0.2663 0.1046

Mercury -47062-02-23 05:45 J -15467919.39 -15467919.26 -15467919.12 0.2667 0.0649

Mercury -47059-09-02 04:47 J -15466632.35 -15466632.30 -15466632.24 0.2669 0.2312

Mercury -47052-08-25 22:47 J -15464082.67 -15464082.55 -15464082.43 0.2664 0.0151

Mercury -47049-02-26 07:26 J -15463168.29 -15463168.19 -15463168.10 0.2665 0.1915

Mercury -47042-02-18 09:35 J -15460619.21 -15460619.10 -15460618.99 0.2670 0.1547

Mercury -47039-08-28 18:42 J -15459331.84 -15459331.72 -15459331.61 0.2666 0.0751

Mercury -47032-08-21 11:30 J -15456782.11 -15456782.02 -15456781.93 0.2661 0.1806

Mercury -47029-02-21 10:18 J -15455868.21 -15455868.07 -15455867.93 0.2668 0.0366

Mercury -47026-08-31 14:23 J -15454580.99 -15454580.90 -15454580.81 0.2668 0.1617

Mercury -47019-08-24 07:40 J -15452031.29 -15452031.18 -15452031.06 0.2663 0.0884

Mercury -47016-02-23 11:30 J -15451117.15 -15451117.02 -15451116.88 0.2666 0.0874

Mercury -47013-09-02 09:50 J -15449830.13 -15449830.09 -15449830.04 0.2669 0.2461

Mercury -47009-02-16 14:52 J -15448567.93 -15448567.88 -15448567.84 0.2672 0.2490

Mercury -47006-08-27 03:50 J -15447280.46 -15447280.34 -15447280.22 0.2665 0.0030

Mercury -47003-02-26 13:11 J -15446366.03 -15446365.95 -15446365.86 0.2665 0.2136

Venus -47002-10-10 07:40 J -15445775.33 -15445775.18 -15445775.04 0.2692 0.0921

47TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 47th millennium BCE.

PLANET	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
TRANSIT								
TIME								
Mercury	-46999-08-19	20:09	J	-15444730.68	-15444730.66	-15444730.63	0.2660	0.2580
Mercury	-46996-02-18	15:21	J	-15443816.98	-15443816.86	-15443816.74	0.2670	0.1338

Mercury -46993-08-28 23:45 J -15442529.62 -15442529.51 -15442529.40 0.2666 0.0908

Mercury -46986-08-22 16:33 J -15439979.90 -15439979.81 -15439979.71 0.2662 0.1641

Mercury -46983-02-21 16:18 J -15439065.96 -15439065.82 -15439065.68 0.2668 0.0153

Mercury -46980-08-31 19:26 J -15437778.78 -15437778.69 -15437778.60 0.2668 0.1769

Mercury -46973-08-24 12:57 J -15435229.08 -15435228.96 -15435228.85 0.2663 0.0720

Mercury -46970-02-24 17:30 J -15434314.90 -15434314.77 -15434314.64 0.2666 0.1084

Mercury -46967-09-03 14:52 J -15433027.90 -15433027.88 -15433027.85 0.2670 0.2613

Mercury -46963-02-16 20:38 J -15431765.71 -15431765.64 -15431765.58 0.2671 0.2289

Mercury -46960-08-27 09:06 J -15430478.24 -15430478.12 -15430478.00 0.2665 0.0208

Mercury -46957-02-27 19:11 J -15429563.77 -15429563.70 -15429563.64 0.2664 0.2357

Mercury -46953-08-20 01:26 J -15427928.49 -15427928.44 -15427928.39 0.2660 0.2410

Mercury -46950-02-19 21:06 J -15427014.75 -15427014.62 -15427014.50 0.2669 0.1133

Mercury -46947-08-30 04:47 J -15425727.41 -15425727.30 -15425727.19 0.2667 0.1066

Mercury -46940-08-22 21:50 J -15423177.69 -15423177.59 -15423177.49 0.2662 0.1472

Mercury -46937-02-22 22:04 J -15422263.72 -15422263.58 -15422263.44 0.2668 0.0070

Mercury -46934-09-02 00:28 J -15420976.56 -15420976.48 -15420976.40 0.2668 0.1923

Mercury -46927-08-25 17:59 J -15418426.86 -15418426.75 -15418426.63 0.2664 0.0558

Mercury -46924-02-24 23:30 J -15417512.64 -15417512.52 -15417512.40 0.2666 0.1310

Mercury -46917-02-18 02:09 J -15414963.49 -15414963.41 -15414963.32 0.2671 0.2090

Mercury -46914-08-28 14:09 J -15413676.03 -15413675.91 -15413675.79 0.2665 0.0344

Mercury -46911-02-28 01:11 J -15412761.48 -15412761.45 -15412761.42 0.2664 0.2581

Mercury -46907-08-21 06:42 J -15411126.29 -15411126.22 -15411126.16 0.2661 0.2238

Mercury -46904-02-20 02:52 J -15410212.51 -15410212.38 -15410212.25 0.2669 0.0922

Mercury -46901-08-30 10:04 J -15408925.19 -15408925.08 -15408924.98 0.2667 0.1223

Venus -46896-04-08 15:35 J -15407242.92 -15407242.85 -15407242.78 0.2641 0.2359

Mercury -46894-08-24 03:06 J -15406375.48 -15406375.37 -15406375.27 0.2662 0.1307

Mercury -46891-02-23 03:50 J -15405461.48 -15405461.34 -15405461.20 0.2667 0.0285

Venus -46888-04-06 05:45 J -15404323.39 -15404323.26 -15404323.13 0.2642 0.1543

Mercury -46888-09-02 05:30 J -15404174.34 -15404174.27 -15404174.19 0.2669 0.2076

Mercury -46881-08-25 23:16 J -15401624.65 -15401624.53 -15401624.41 0.2664 0.0395

Mercury -46878-02-26 05:16 J -15400710.39 -15400710.28 -15400710.17 0.2666 0.1525

Mercury -46871-02-18 07:54 J -15398161.26 -15398161.17 -15398161.07 0.2671 0.1884

Mercury -46868-08-28 19:11 J -15396873.82 -15396873.70 -15396873.58 0.2666 0.0505

Mercury -46861-08-21 11:45 J -15394324.08 -15394324.01 -15394323.93 0.2661 0.2071

Mercury -46858-02-21 08:38 J -15393410.27 -15393410.14 -15393410.01 0.2669 0.0718

Mercury -46855-08-31 15:06 J -15392122.97 -15392122.87 -15392122.77 0.2667 0.1374

Mercury -46848-08-24 08:09 J -15389573.27 -15389573.16 -15389573.05 0.2663 0.1139

Mercury -46845-02-24 09:35 J -15388659.23 -15388659.10 -15388658.96 0.2667 0.0502

Mercury -46842-09-03 10:33 J -15387372.12 -15387372.06 -15387371.99 0.2669 0.2225

Mercury -46835-08-27 04:18 J -15384822.44 -15384822.32 -15384822.20 0.2664 0.0239

Mercury -46832-02-26 11:16 J -15383908.14 -15383908.03 -15383907.93 0.2665 0.1748

Mercury -46825-02-19 13:40 J -15381359.03 -15381358.93 -15381358.82 0.2670 0.1681

Mercury -46822-08-30 00:14 J -15380071.60 -15380071.49 -15380071.37 0.2666 0.0667

Mercury -46815-08-22 17:02 J -15377521.87 -15377521.79 -15377521.71 0.2661 0.1898

Mercury -46812-02-21 14:23 J -15376608.03 -15376607.90 -15376607.76 0.2668 0.0506

Mercury -46809-08-31 20:09 J -15375320.76 -15375320.66 -15375320.56 0.2667 0.1527

Mercury -46802-08-25 13:26 J -15372771.05 -15372770.94 -15372770.83 0.2663 0.0975

Mercury -46799-02-24 15:35 J -15371856.99 -15371856.85 -15371856.72 0.2667 0.0709

Mercury -46796-09-03 15:50 J -15370569.89 -15370569.84 -15370569.79 0.2669 0.2374

Mercury -46792-02-16 18:57 J -15369307.73 -15369307.71 -15369307.68 0.2672 0.2615

Mercury -46789-08-27 09:35 J -15368020.22 -15368020.10 -15368019.98 0.2664 0.0072

Mercury -46786-02-27 17:02 J -15367105.88 -15367105.79 -15367105.70 0.2665 0.1961

Mercury -46779-02-19 19:26 J -15364556.80 -15364556.69 -15364556.58 0.2670 0.1477

Mercury -46776-08-30 05:30 J -15363269.38 -15363269.27 -15363269.16 0.2666 0.0819

Mercury -46769-08-22 22:18 J -15360719.67 -15360719.57 -15360719.48 0.2661 0.1736

Mercury -46766-02-22 20:09 J -15359805.80 -15359805.66 -15359805.52 0.2668 0.0301

Mercury -46763-09-02 01:11 J -15358518.54 -15358518.45 -15358518.36 0.2668 0.1680

Venus -46759-10-10 10:18 J -15357019.22 -15357019.07 -15357018.93 0.2691 0.1060

Mercury -46756-08-25 18:28 J -15355968.84 -15355968.73 -15355968.61 0.2663 0.0812

Mercury -46753-02-25 21:21 J -15355054.74 -15355054.61 -15355054.48 0.2666 0.0926

Venus -46751-10-08 02:52 J -15354099.41 -15354099.38 -15354099.35 0.2690 0.2625

Mercury -46750-09-04 20:52 J -15353767.67 -15353767.63 -15353767.60 0.2669 0.2524

Mercury -46746-02-18 00:42 J -15352505.53 -15352505.47 -15352505.41 0.2672 0.2415

Mercury -46743-08-28 14:38 J -15351218.01 -15351217.89 -15351217.77 0.2665 0.0103

Mercury -46740-02-27 23:02 J -15350303.62 -15350303.54 -15350303.47 0.2665 0.2184

Mercury -46736-08-21 06:57 J -15348668.25 -15348668.21 -15348668.17 0.2660 0.2505

Mercury -46733-02-21 01:11 J -15347754.57 -15347754.45 -15347754.33 0.2670 0.1270

Mercury -46730-08-31 10:33 J -15346467.17 -15346467.06 -15346466.95 0.2666 0.0974

Mercury -46723-08-24 03:21 J -15343917.46 -15343917.36 -15343917.26 0.2662 0.1564

Mercury -46720-02-23 01:54 J -15343003.55 -15343003.42 -15343003.28 0.2668 0.0122

Mercury -46717-09-02 06:14 J -15341716.32 -15341716.24 -15341716.15 0.2668 0.1837

Mercury -46710-08-26 23:45 J -15339166.63 -15339166.51 -15339166.39 0.2663 0.0647

Mercury -46707-02-26 03:06 J -15338252.49 -15338252.37 -15338252.24 0.2666 0.1139

Mercury -46700-02-18 06:28 J -15335703.30 -15335703.23 -15335703.16 0.2671 0.2211

Mercury -46697-08-28 19:54 J -15334415.79 -15334415.67 -15334415.55 0.2665 0.0268

Mercury -46694-03-01 04:47 J -15333501.36 -15333501.30 -15333501.24 0.2664 0.2405

Mercury -46690-08-22 11:59 J -15331866.05 -15331866.00 -15331865.94 0.2660 0.2338

Mercury -46687-02-21 06:57 J -15330952.34 -15330952.21 -15330952.08 0.2669 0.1063

Mercury -46684-08-31 15:35 J -15329664.95 -15329664.85 -15329664.74 0.2667 0.1135

Mercury -46677-08-24 08:38 J -15327115.24 -15327115.14 -15327115.04 0.2662 0.1398

Mercury -46674-02-24 07:54 J -15326201.31 -15326201.17 -15326201.03 0.2668 0.0142

Mercury -46671-09-03 11:16 J -15324914.10 -15324914.03 -15324913.95 0.2668 0.1989

Mercury -46664-08-27 04:47 J -15322364.41 -15322364.30 -15322364.18 0.2664 0.0490

Mercury -46661-02-27 09:06 J -15321450.24 -15321450.12 -15321450.00 0.2666 0.1359

Mercury -46654-02-19 12:14 J -15318901.08 -15318900.99 -15318900.90 0.2671 0.2010

Venus -46653-04-08 15:35 J -15318486.91 -15318486.85 -15318486.78 0.2641 0.2382

Mercury -46651-08-30 00:57 J -15317613.58 -15317613.46 -15317613.34 0.2665 0.0412

Mercury -46648-03-01 10:47 J -15316699.07 -15316699.05 -15316699.03 0.2664 0.2623

Venus -46645-04-06 05:45 J -15315567.39 -15315567.26 -15315567.13 0.2642 0.1516

Mercury -46644-08-22 17:16 J -15315063.85 -15315063.78 -15315063.71 0.2661 0.2165

Mercury -46641-02-22 12:42 J -15314150.10 -15314149.97 -15314149.84 0.2669 0.0855

Mercury -46638-09-01 20:52 J -15312862.74 -15312862.63 -15312862.53 0.2667 0.1287

Mercury -46631-08-25 13:40 J -15310313.03 -15310312.93 -15310312.82 0.2662 0.1237

Mercury -46628-02-24 13:40 J -15309399.07 -15309398.93 -15309398.79 0.2667 0.0342

Mercury -46625-09-03 16:33 J -15308111.88 -15308111.81 -15308111.74 0.2669 0.2137

Mercury -46618-08-28 10:04 J -15305562.20 -15305562.08 -15305561.96 0.2664 0.0323

Mercury -46615-02-27 14:52 J -15304647.99 -15304647.88 -15304647.76 0.2666 0.1573

Mercury -46608-02-19 17:45 J -15302098.85 -15302098.76 -15302098.66 0.2671 0.1813

Mercury -46605-08-30 05:59 J -15300811.36 -15300811.25 -15300811.13 0.2665 0.0576

Mercury -46598-08-23 22:33 J -15298261.64 -15298261.56 -15298261.48 0.2661 0.1997

Mercury -46595-02-22 18:28 J -15297347.86 -15297347.73 -15297347.60 0.2669 0.0648

Mercury -46592-09-02 01:54 J -15296060.52 -15296060.42 -15296060.32 0.2667 0.1439

Mercury -46585-08-25 18:57 J -15293510.82 -15293510.71 -15293510.60 0.2663 0.1068

Mercury -46582-02-25 19:26 J -15292596.82 -15292596.69 -15292596.55 0.2667 0.0558

Mercury -46579-09-04 21:35 J -15291309.66 -15291309.60 -15291309.54 0.2669 0.2288

Mercury -46572-08-28 15:06 J -15288759.99 -15288759.87 -15288759.75 0.2664 0.0167

Mercury -46569-02-28 20:52 J -15287845.73 -15287845.63 -15287845.53 0.2665 0.1796

Mercury -46562-02-20 23:30 J -15285296.62 -15285296.52 -15285296.41 0.2670 0.1610

Mercury -46559-08-31 11:16 J -15284009.15 -15284009.03 -15284008.92 0.2666 0.0731

Mercury -46552-08-24 03:50 J -15281459.43 -15281459.34 -15281459.25 0.2661 0.1826

Mercury -46549-02-24 00:14 J -15280545.62 -15280545.49 -15280545.35 0.2668 0.0442

Mercury -46546-09-03 06:57 J -15279258.30 -15279258.21 -15279258.11 0.2667 0.1595

Mercury -46539-08-27 00:14 J -15276708.61 -15276708.49 -15276708.38 0.2663 0.0905

Mercury -46536-02-26 01:11 J -15275794.58 -15275794.45 -15275794.31 0.2667 0.0768

Mercury -46533-09-05 02:38 J -15274507.43 -15274507.39 -15274507.34 0.2669 0.2437

Mercury -46529-02-19 05:02 J -15273245.33 -15273245.29 -15273245.25 0.2672 0.2538

Mercury -46526-08-29 20:23 J -15271957.77 -15271957.65 -15271957.53 0.2664 0.0070

Mercury -46523-03-01 02:38 J -15271043.48 -15271043.39 -15271043.29 0.2665 0.2015

Mercury -46519-08-22 12:28 J -15269408.01 -15269407.98 -15269407.96 0.2660 0.2603

Mercury -46516-02-21 05:16 J -15268494.39 -15268494.28 -15268494.16 0.2670 0.1406

Venus -46516-10-10 12:57 J -15268263.10 -15268262.96 -15268262.82 0.2690 0.1207

Mercury -46513-08-31 16:18 J -15267206.93 -15267206.82 -15267206.71 0.2666 0.0885

Venus -46508-10-08 05:16 J -15265343.33 -15265343.28 -15265343.22 0.2689 0.2496

Mercury -46506-08-25 09:06 J -15264657.22 -15264657.12 -15264657.03 0.2661 0.1661

Mercury -46503-02-24 05:59 J -15263743.39 -15263743.25 -15263743.11 0.2668 0.0236

Mercury -46500-09-03 11:59 J -15262456.08 -15262456.00 -15262455.91 0.2668 0.1746

Mercury -46493-08-27 05:16 J -15259906.39 -15259906.28 -15259906.16 0.2663 0.0741

Mercury -46490-02-27 07:11 J -15258992.33 -15258992.20 -15258992.07 0.2666 0.0981

Mercury -46487-09-06 07:40 J -15257705.20 -15257705.18 -15257705.15 0.2669 0.2585

Mercury -46483-02-19 10:33 J -15256443.12 -15256443.06 -15256442.99 0.2672 0.2339

Mercury -46480-08-30 01:26 J -15255155.56 -15255155.44 -15255155.32 0.2665 0.0165

Mercury -46477-03-01 08:38 J -15254241.21 -15254241.14 -15254241.06 0.2665 0.2232

Mercury -46473-08-22 17:30 J -15252605.81 -15252605.77 -15252605.72 0.2660 0.2433

Mercury -46470-02-22 11:02 J -15251692.16 -15251692.04 -15251691.92 0.2670 0.1202

Mercury -46467-09-01 21:21 J -15250404.72 -15250404.61 -15250404.50 0.2666 0.1040

Mercury -46460-08-25 14:09 J -15247855.01 -15247854.91 -15247854.81 0.2662 0.1491

Mercury -46457-02-25 11:45 J -15246941.15 -15246941.01 -15246940.87 0.2668 0.0060

Mercury -46454-09-04 17:16 J -15245653.87 -15245653.78 -15245653.70 0.2668 0.1899

Mercury -46447-08-28 10:33 J -15243104.18 -15243104.06 -15243103.94 0.2663 0.0578

Mercury -46444-02-27 12:57 J -15242190.08 -15242189.96 -15242189.83 0.2666 0.1192

Mercury -46437-02-20 16:18 J -15239640.90 -15239640.82 -15239640.74 0.2671 0.2141

Mercury -46434-08-31 06:42 J -15238353.34 -15238353.22 -15238353.10 0.2665 0.0328

Mercury -46431-03-02 14:38 J -15237438.95 -15237438.89 -15237438.84 0.2664 0.2450

Mercury -46427-08-23 22:47 J -15235803.61 -15235803.55 -15235803.49 0.2660 0.2261

Mercury -46424-02-22 16:47 J -15234889.93 -15234889.80 -15234889.67 0.2669 0.0997

Mercury -46421-09-02 02:38 J -15233602.50 -15233602.39 -15233602.29 0.2667 0.1199

Mercury -46414-08-26 19:26 J -15231052.80 -15231052.69 -15231052.59 0.2662 0.1328

Mercury -46411-02-25 17:30 J -15230138.90 -15230138.77 -15230138.63 0.2668 0.0207

Venus -46410-04-09 15:21 J -15229730.93 -15229730.86 -15229730.79 0.2642 0.2379

Mercury -46408-09-04 22:18 J -15228851.65 -15228851.57 -15228851.50 0.2668 0.2049

Venus -46402-04-07 05:45 J -15226811.39 -15226811.26 -15226811.12 0.2643 0.1481

Mercury -46401-08-28 15:35 J -15226301.97 -15226301.85 -15226301.73 0.2664 0.0416

Mercury -46398-02-28 18:57 J -15225387.83 -15225387.71 -15225387.60 0.2666 0.1411

Mercury -46391-02-20 22:04 J -15222838.67 -15222838.58 -15222838.49 0.2671 0.1937

Mercury -46388-08-31 11:45 J -15221551.13 -15221551.01 -15221550.89 0.2665 0.0479

Mercury -46381-08-24 04:04 J -15219001.40 -15219001.33 -15219001.26 0.2661 0.2092

Mercury -46378-02-23 22:33 J -15218087.69 -15218087.56 -15218087.43 0.2669 0.0791

Mercury -46375-09-03 07:40 J -15216800.28 -15216800.18 -15216800.08 0.2667 0.1351

Mercury -46368-08-27 00:28 J -15214250.59 -15214250.48 -15214250.37 0.2662 0.1162

Mercury -46365-02-26 23:30 J -15213336.66 -15213336.52 -15213336.39 0.2667 0.0401

Mercury -46362-09-06 03:21 J -15212049.42 -15212049.36 -15212049.29 0.2669 0.2203

Mercury -46355-08-29 20:52 J -15209499.75 -15209499.63 -15209499.51 0.2664 0.0259

Mercury -46352-03-01 00:42 J -15208585.58 -15208585.47 -15208585.36 0.2666 0.1624

Mercury -46345-02-22 03:50 J -15206036.44 -15206036.34 -15206036.24 0.2671 0.1738

Mercury -46342-09-01 16:47 J -15204748.91 -15204748.80 -15204748.68 0.2666 0.0645

Mercury -46335-08-25 09:21 J -15202199.20 -15202199.11 -15202199.03 0.2661 0.1924

Mercury -46332-02-24 04:18 J -15201285.45 -15201285.32 -15201285.19 0.2669 0.0584

Mercury -46329-09-03 12:42 J -15199998.07 -15199997.97 -15199997.87 0.2667 0.1505

Mercury -46322-08-28 05:45 J -15197448.37 -15197448.26 -15197448.15 0.2663 0.0996

Mercury -46319-02-27 05:16 J -15196534.41 -15196534.28 -15196534.14 0.2667 0.0611

Mercury -46316-09-06 08:23 J -15195247.20 -15195247.15 -15195247.09 0.2669 0.2349

Mercury -46312-02-19 09:21 J -15193985.12 -15193985.11 -15193985.10 0.2672 0.2656

Mercury -46309-08-30 01:54 J -15192697.54 -15192697.42 -15192697.30 0.2664 0.0109

Mercury -46306-03-02 06:42 J -15191783.32 -15191783.22 -15191783.12 0.2665 0.1846

Mercury -46299-02-22 09:35 J -15189234.21 -15189234.10 -15189233.99 0.2670 0.1536

Mercury -46296-09-01 22:04 J -15187946.70 -15187946.58 -15187946.47 0.2666 0.0795

Mercury -46289-08-25 14:23 J -15185396.99 -15185396.90 -15185396.80 0.2661 0.1758

Mercury -46286-02-25 10:04 J -15184483.21 -15184483.08 -15184482.94 0.2668 0.0380

Mercury -46283-09-04 17:45 J -15183195.85 -15183195.76 -15183195.66 0.2668 0.1660

Mercury -46276-08-28 10:47 J -15180646.16 -15180646.05 -15180645.93 0.2663 0.0839

Mercury -46273-02-28 11:02 J -15179732.17 -15179732.04 -15179731.90 0.2667 0.0826

Venus -46273-10-10 15:06 J -15179507.00 -15179506.87 -15179506.73 0.2690 0.1325

Mercury -46270-09-07 13:26 J -15178444.97 -15178444.94 -15178444.90 0.2669 0.2502

Mercury -46266-02-20 14:52 J -15177182.93 -15177182.88 -15177182.83 0.2672 0.2462

Venus -46265-10-08 07:40 J -15176587.25 -15176587.18 -15176587.11 0.2688 0.2370

Mercury -46263-08-31 07:11 J -15175895.32 -15175895.20 -15175895.08 0.2665 0.0078

Mercury -46260-03-02 12:28 J -15174981.07 -15174980.98 -15174980.89 0.2665 0.2059

Mercury -46256-08-23 23:02 J -15173345.57 -15173345.54 -15173345.50 0.2660 0.2529

Mercury -46253-02-23 15:06 J -15172431.98 -15172431.87 -15172431.75 0.2670 0.1340

Mercury -46250-09-03 03:06 J -15171144.48 -15171144.37 -15171144.26 0.2666 0.0953

Mercury -46243-08-26 19:40 J -15168594.78 -15168594.68 -15168594.58 0.2662 0.1590

Mercury -46240-02-25 15:50 J -15167680.97 -15167680.84 -15167680.70 0.2668 0.0179

Mercury -46237-09-04 23:02 J -15166393.63 -15166393.54 -15166393.46 0.2668 0.1811

Mercury -46230-08-29 16:04 J -15163843.95 -15163843.83 -15163843.71 0.2663 0.0669

Mercury -46227-02-28 17:02 J -15162929.92 -15162929.79 -15162929.66 0.2666 0.1037

Mercury -46224-09-07 18:28 J -15161642.74 -15161642.73 -15161642.71 0.2669 0.2649

Mercury -46220-02-20 20:38 J -15160380.71 -15160380.64 -15160380.57 0.2671 0.2266

Mercury -46217-08-31 12:14 J -15159093.11 -15159092.99 -15159092.87 0.2665 0.0232

Mercury -46214-03-03 18:28 J -15158178.80 -15158178.73 -15158178.66 0.2665 0.2282

Mercury -46210-08-25 04:18 J -15156543.37 -15156543.32 -15156543.26 0.2660 0.2358

Mercury -46207-02-23 20:52 J -15155629.75 -15155629.63 -15155629.50 0.2670 0.1136

Mercury -46204-09-03 08:09 J -15154342.26 -15154342.16 -15154342.05 0.2666 0.1108

Mercury -46197-08-27 00:57 J -15151792.56 -15151792.46 -15151792.36 0.2662 0.1421

Mercury -46194-02-26 21:35 J -15150878.73 -15150878.60 -15150878.46 0.2668 0.0096

Mercury -46191-09-06 04:04 J -15149591.41 -15149591.33 -15149591.25 0.2668 0.1963

Mercury -46184-08-29 21:21 J -15147041.73 -15147041.61 -15147041.49 0.2663 0.0510

Mercury -46181-02-29 22:47 J -15146127.67 -15146127.55 -15146127.43 0.2666 0.1248

Mercury -46174-02-22 02:23 J -15143578.49 -15143578.40 -15143578.32 0.2671 0.2070

Mercury -46171-09-01 17:30 J -15142290.89 -15142290.77 -15142290.65 0.2665 0.0392

Mercury -46168-03-04 00:14 J -15141376.53 -15141376.49 -15141376.44 0.2664 0.2499

Venus -46167-04-09 15:35 J -15140974.91 -15140974.85 -15140974.78 0.2643 0.2431

Mercury -46164-08-25 09:35 J -15139741.17 -15139741.10 -15139741.03 0.2661 0.2189

Mercury -46161-02-25 02:38 J -15138827.52 -15138827.39 -15138827.26 0.2669 0.0933

Venus -46159-04-07 05:59 J -15138055.38 -15138055.25 -15138055.11 0.2644 0.1422

Mercury -46158-09-04 13:26 J -15137540.05 -15137539.94 -15137539.84 0.2667 0.1263

Mercury -46151-08-28 06:14 J -15134990.35 -15134990.24 -15134990.14 0.2662 0.1257

Mercury -46148-02-27 03:35 J -15134076.49 -15134076.35 -15134076.22 0.2668 0.0262

Mercury -46145-09-06 09:06 J -15132789.19 -15132789.12 -15132789.05 0.2668 0.2110

Mercury -46138-08-31 02:23 J -15130239.52 -15130239.40 -15130239.28 0.2664 0.0352

Mercury -46135-03-02 04:33 J -15129325.42 -15129325.31 -15129325.19 0.2666 0.1465

Mercury -46128-02-22 08:09 J -15126776.26 -15126776.16 -15126776.07 0.2671 0.1868

Mercury -46125-09-01 22:33 J -15125488.68 -15125488.56 -15125488.44 0.2665 0.0548

Mercury -46118-08-26 14:52 J -15122938.96 -15122938.88 -15122938.81 0.2661 0.2022

Mercury -46115-02-25 08:23 J -15122025.28 -15122025.15 -15122025.01 0.2669 0.0729

Mercury -46112-09-04 18:28 J -15120737.83 -15120737.73 -15120737.63 0.2667 0.1414

Mercury -46105-08-28 11:16 J -15118188.14 -15118188.03 -15118187.92 0.2662 0.1091

Mercury -46102-02-28 09:21 J -15117274.25 -15117274.11 -15117273.98 0.2667 0.0461

Mercury -46099-09-07 14:09 J -15115986.97 -15115986.91 -15115986.85 0.2669 0.2265

Mercury -46092-08-31 07:40 J -15113437.30 -15113437.18 -15113437.06 0.2664 0.0185

Mercury -46089-03-02 10:33 J -15112523.17 -15112523.06 -15112522.96 0.2665 0.1676

Mercury -46082-02-23 13:40 J -15109974.03 -15109973.93 -15109973.82 0.2671 0.1670

Mercury -46079-09-03 03:50 J -15108686.46 -15108686.34 -15108686.23 0.2666 0.0710

Mercury -46072-08-26 19:54 J -15106136.75 -15106136.67 -15106136.58 0.2661 0.1855

Mercury -46069-02-26 14:09 J -15105223.04 -15105222.91 -15105222.77 0.2669 0.0523

Mercury -46066-09-05 23:30 J -15103935.61 -15103935.52 -15103935.42 0.2667 0.1572

Mercury -46059-08-29 16:33 J -15101385.93 -15101385.81 -15101385.70 0.2663 0.0927

Mercury -46056-02-28 15:06 J -15100472.00 -15100471.87 -15100471.74 0.2667 0.0666

Mercury -46053-09-07 19:26 J -15099184.74 -15099184.69 -15099184.65 0.2669 0.2413

Mercury -46049-02-21 19:11 J -15097922.73 -15097922.70 -15097922.67 0.2672 0.2583

Mercury -46046-09-01 12:42 J -15096635.09 -15096634.97 -15096634.85 0.2664 0.0063

Mercury -46043-03-03 16:18 J -15095720.92 -15095720.82 -15095720.72 0.2665 0.1891

Mercury -46039-08-25 04:33 J -15094085.33 -15094085.31 -15094085.29 0.2660 0.2628

Mercury -46036-02-23 19:26 J -15093171.80 -15093171.69 -15093171.57 0.2670 0.1464

Mercury -46033-09-03 08:52 J -15091884.25 -15091884.13 -15091884.02 0.2666 0.0860

Venus -46030-10-11 17:45 J -15090750.89 -15090750.76 -15090750.63 0.2689 0.1493

Mercury -46026-08-28 01:11 J -15089334.54 -15089334.45 -15089334.35 0.2661 0.1687

Mercury -46023-02-26 20:09 J -15088420.80 -15088420.66 -15088420.53 0.2668 0.0324

Venus -46022-10-09 09:50 J -15087831.17 -15087831.09 -15087831.00 0.2688 0.2231

Mercury -46020-09-06 04:47 J -15087133.39 -15087133.30 -15087133.21 0.2668 0.1723

Mercury -46013-08-29 21:35 J -15084583.71 -15084583.60 -15084583.48 0.2663 0.0768

Mercury -46010-03-01 20:52 J -15083669.76 -15083669.63 -15083669.50 0.2667 0.0877

Mercury -46007-09-09 00:28 J -15082382.51 -15082382.48 -15082382.45 0.2669 0.2563

Mercury -46003-02-22 00:57 J -15081120.52 -15081120.46 -15081120.40 0.2672 0.2385

46TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 46th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-46000-09-01 17:59 J	-15079832.87	-15079832.75	-15079832.63	0.2665	0.0144		
Mercury	-45997-03-03 22:18 J	-15078918.66	-15078918.57	-15078918.49	0.2665	0.2109		
Mercury	-45993-08-25 09:50 J	-15077283.14	-15077283.09	-15077283.05	0.2660	0.2460		
Mercury	-45990-02-25 01:11 J	-15076369.57	-15076369.45	-15076369.33	0.2670	0.1268		
Mercury	-45987-09-04 13:54 J	-15075082.03	-15075081.92	-15075081.81	0.2666	0.1019		
Mercury	-45980-08-28 06:28 J	-15072532.33	-15072532.23	-15072532.13	0.2662	0.1517		

Mercury -45977-02-28 01:40 J -15071618.56 -15071618.43 -15071618.29 0.2668 0.0130

Mercury -45974-09-07 09:50 J -15070331.17 -15070331.09 -15070331.01 0.2668 0.1873

Mercury -45967-08-31 02:52 J -15067781.50 -15067781.38 -15067781.26 0.2663 0.0601

Mercury -45964-03-02 02:52 J -15066867.51 -15066867.38 -15066867.26 0.2666 0.1094

Mercury -45957-02-23 06:42 J -15064318.30 -15064318.22 -15064318.15 0.2671 0.2190

Mercury -45954-09-02 23:02 J -15063030.66 -15063030.54 -15063030.42 0.2665 0.0299

Mercury -45951-03-05 04:04 J -15062116.39 -15062116.33 -15062116.26 0.2665 0.2326

Mercury -45947-08-26 15:06 J -15060480.93 -15060480.87 -15060480.81 0.2660 0.2288

Mercury -45944-02-25 06:57 J -15059567.34 -15059567.21 -15059567.09 0.2670 0.1064

Mercury -45941-09-04 19:11 J -15058279.81 -15058279.70 -15058279.60 0.2666 0.1173

Mercury -45934-08-29 11:45 J -15055730.12 -15055730.01 -15055729.91 0.2662 0.1356

Mercury -45931-02-28 07:26 J -15054816.32 -15054816.19 -15054816.05 0.2668 0.0133

Mercury -45928-09-07 14:52 J -15053528.95 -15053528.88 -15053528.80 0.2668 0.2025

Venus -45924-04-09 15:50 J -15052218.90 -15052218.84 -15052218.78 0.2643 0.2454

Mercury -45921-08-31 08:09 J -15050979.28 -15050979.16 -15050979.04 0.2664 0.0447

Mercury -45918-03-03 08:38 J -15050065.26 -15050065.14 -15050065.02 0.2666 0.1303

Venus -45916-04-07 06:28 J -15049299.37 -15049299.23 -15049299.09 0.2645 0.1358

Mercury -45911-02-23 12:14 J -15047516.07 -15047515.99 -15047515.90 0.2671 0.1996

Mercury -45908-09-03 04:18 J -15046228.44 -15046228.32 -15046228.20 0.2665 0.0458

Mercury -45905-03-05 10:04 J -15045314.12 -15045314.08 -15045314.04 0.2664 0.2543

Mercury -45901-08-26 20:23 J -15043678.73 -15043678.65 -15043678.58 0.2661 0.2121

Mercury -45898-02-26 12:42 J -15042765.10 -15042764.97 -15042764.84 0.2669 0.0868

Mercury -45895-09-06 00:14 J -15041477.59 -15041477.49 -15041477.39 0.2667 0.1326

Mercury -45888-08-29 16:47 J -15038927.90 -15038927.80 -15038927.69 0.2662 0.1190

Mercury -45885-02-29 13:26 J -15038014.08 -15038013.94 -15038013.81 0.2667 0.0313

Mercury -45882-09-08 19:54 J -15036726.73 -15036726.67 -15036726.60 0.2668 0.2175

Mercury -45875-09-01 13:11 J -15034177.07 -15034176.95 -15034176.83 0.2664 0.0279

Mercury -45872-03-03 14:23 J -15033263.01 -15033262.90 -15033262.78 0.2666 0.1514

Mercury -45865-02-24 17:59 J -15030713.85 -15030713.75 -15030713.65 0.2671 0.1797

Mercury -45862-09-04 09:21 J -15029426.23 -15029426.11 -15029425.99 0.2665 0.0611

Mercury -45855-08-28 01:26 J -15026876.52 -15026876.44 -15026876.35 0.2661 0.1952

Mercury -45852-02-26 18:28 J -15025962.87 -15025962.73 -15025962.60 0.2669 0.0663

Mercury -45849-09-06 05:16 J -15024675.38 -15024675.28 -15024675.18 0.2667 0.1479

Mercury -45842-08-30 22:04 J -15022125.69 -15022125.58 -15022125.47 0.2662 0.1022

Mercury -45839-03-01 19:11 J -15021211.84 -15021211.70 -15021211.57 0.2667 0.0515

Mercury -45836-09-09 01:11 J -15019924.51 -15019924.45 -15019924.40 0.2669 0.2326

Mercury -45829-09-01 18:28 J -15017374.85 -15017374.73 -15017374.61 0.2664 0.0131

Mercury -45826-03-04 20:09 J -15016460.76 -15016460.66 -15016460.55 0.2665 0.1729

Mercury -45819-02-24 23:45 J -15013911.62 -15013911.51 -15013911.41 0.2670 0.1602

Mercury -45816-09-04 14:38 J -15012624.01 -15012623.89 -15012623.78 0.2666 0.0773

Mercury -45809-08-28 06:42 J -15010074.31 -15010074.22 -15010074.13 0.2661 0.1782

Mercury -45806-02-27 23:59 J -15009160.63 -15009160.50 -15009160.36 0.2669 0.0465

Mercury -45803-09-07 10:33 J -15007873.16 -15007873.06 -15007872.97 0.2667 0.1635

Mercury -45796-08-31 03:21 J -15005323.48 -15005323.36 -15005323.25 0.2663 0.0860

Mercury -45793-03-02 00:57 J -15004409.59 -15004409.46 -15004409.33 0.2667 0.0723

Mercury -45790-09-10 06:14 J -15003122.28 -15003122.24 -15003122.20 0.2669 0.2471

Venus -45787-10-11 19:40 J -15001994.80 -15001994.68 -15001994.55 0.2688 0.1593

Mercury -45786-02-23 05:16 J -15001860.32 -15001860.28 -15001860.23 0.2672 0.2505

Mercury -45783-09-02 23:30 J -15000572.64 -15000572.52 -15000572.40 0.2664 0.0068

Mercury -45780-03-05 02:09 J -14999658.51 -14999658.41 -14999658.32 0.2665 0.1938

Venus -45779-10-09 11:59 J -14999075.09 -14999075.00 -14999074.90 0.2687 0.2111

Mercury -45776-08-26 15:21 J -14998022.89 -14998022.86 -14998022.83 0.2660 0.2559

Mercury -45773-02-26 05:30 J -14997109.39 -14997109.27 -14997109.16 0.2670 0.1398

Mercury -45770-09-05 19:40 J -14995821.79 -14995821.68 -14995821.57 0.2666 0.0925

Mercury -45763-08-29 11:59 J -14993272.10 -14993272.00 -14993271.90 0.2661 0.1617

Mercury -45760-02-28 05:45 J -14992358.39 -14992358.26 -14992358.12 0.2668 0.0270

Mercury -45757-09-07 15:35 J -14991070.94 -14991070.85 -14991070.76 0.2668 0.1783

Mercury -45750-09-01 08:23 J -14988521.27 -14988521.15 -14988521.03 0.2663 0.0697

Mercury -45747-03-03 06:42 J -14987607.35 -14987607.22 -14987607.09 0.2667 0.0928

Mercury -45744-09-10 11:16 J -14986320.05 -14986320.03 -14986320.01 0.2669 0.2623

Mercury -45740-02-23 11:02 J -14985058.11 -14985058.04 -14985057.98 0.2672 0.2310

Mercury -45737-09-03 04:47 J -14983770.42 -14983770.30 -14983770.18 0.2665 0.0209

Mercury -45734-03-06 07:54 J -14982856.25 -14982856.17 -14982856.09 0.2665 0.2152

Mercury -45730-08-27 20:23 J -14981220.70 -14981220.65 -14981220.59 0.2660 0.2391

Mercury -45727-02-26 11:02 J -14980307.16 -14980307.04 -14980306.92 0.2670 0.1203

Mercury -45724-09-06 00:42 J -14979019.57 -14979019.47 -14979019.36 0.2666 0.1085

Mercury -45717-08-29 17:16 J -14976469.89 -14976469.78 -14976469.68 0.2662 0.1453

Mercury -45714-03-01 11:45 J -14975556.15 -14975556.01 -14975555.88 0.2668 0.0075

Mercury -45711-09-08 20:38 J -14974268.72 -14974268.64 -14974268.56 0.2668 0.1936

Mercury -45704-09-01 13:40 J -14971719.05 -14971718.93 -14971718.81 0.2663 0.0534

Mercury -45701-03-03 12:28 J -14970805.10 -14970804.98 -14970804.85 0.2666 0.1143

Mercury -45694-02-24 16:33 J -14968255.89 -14968255.81 -14968255.73 0.2671 0.2119

Mercury -45691-09-04 09:50 J -14966968.21 -14966968.09 -14966967.97 0.2665 0.0363

Mercury -45688-03-06 13:40 J -14966053.99 -14966053.93 -14966053.86 0.2665 0.2369

Mercury -45684-08-28 01:40 J -14964418.49 -14964418.43 -14964418.36 0.2660 0.2219

Mercury -45681-02-27 16:47 J -14963504.92 -14963504.80 -14963504.67 0.2670 0.0998

Venus -45681-04-09 16:18 J -14963462.87 -14963462.82 -14963462.78 0.2644 0.2514

Mercury -45678-09-07 05:59 J -14962217.36 -14962217.25 -14962217.15 0.2667 0.1235

Venus -45673-04-07 06:57 J -14960543.35 -14960543.21 -14960543.07 0.2645 0.1298

Mercury -45671-08-30 22:18 J -14959667.67 -14959667.57 -14959667.46 0.2662 0.1287

Mercury -45668-03-01 17:30 J -14958753.91 -14958753.77 -14958753.64 0.2668 0.0168

Mercury -45665-09-09 01:40 J -14957466.50 -14957466.43 -14957466.35 0.2668 0.2089

Mercury -45658-09-02 18:42 J -14954916.84 -14954916.72 -14954916.60 0.2664 0.0380

Mercury -45655-03-04 18:28 J -14954002.85 -14954002.73 -14954002.61 0.2666 0.1355

Mercury -45648-02-24 22:18 J -14951453.66 -14951453.57 -14951453.48 0.2671 0.1923

Mercury -45645-09-04 15:06 J -14950165.99 -14950165.87 -14950165.75 0.2665 0.0521

Mercury -45642-03-07 19:40 J -14949251.71 -14949251.68 -14949251.65 0.2664 0.2587

Mercury -45638-08-29 06:57 J -14947616.29 -14947616.21 -14947616.13 0.2661 0.2051

Mercury -45635-02-27 22:33 J -14946702.69 -14946702.56 -14946702.43 0.2669 0.0803

Mercury -45632-09-07 11:02 J -14945415.14 -14945415.04 -14945414.94 0.2667 0.1389

Mercury -45625-08-31 03:35 J -14942865.46 -14942865.35 -14942865.24 0.2662 0.1118

Mercury -45622-03-02 23:16 J -14941951.67 -14941951.53 -14941951.40 0.2667 0.0371

Mercury -45619-09-10 06:57 J -14940664.28 -14940664.21 -14940664.15 0.2668 0.2237

Mercury -45612-09-02 23:59 J -14938114.62 -14938114.50 -14938114.38 0.2664 0.0212

Mercury -45609-03-05 00:14 J -14937200.60 -14937200.49 -14937200.38 0.2666 0.1565

Mercury -45602-02-26 04:04 J -14934651.44 -14934651.33 -14934651.23 0.2671 0.1729

Mercury -45599-09-05 20:09 J -14933363.78 -14933363.66 -14933363.54 0.2665 0.0676

Mercury -45592-08-29 12:14 J -14930814.08 -14930813.99 -14930813.90 0.2661 0.1881

Mercury -45589-02-29 04:18 J -14929900.45 -14929900.32 -14929900.19 0.2669 0.0599

Mercury -45586-09-08 16:04 J -14928612.92 -14928612.83 -14928612.73 0.2667 0.1541

Mercury -45579-09-01 08:52 J -14926063.25 -14926063.13 -14926063.02 0.2663 0.0960

Mercury -45576-03-03 05:02 J -14925149.43 -14925149.29 -14925149.16 0.2667 0.0570

Mercury -45573-09-10 11:59 J -14923862.05 -14923862.00 -14923861.95 0.2669 0.2385

Mercury -45569-02-24 09:35 J -14922600.12 -14922600.10 -14922600.08 0.2672 0.2625

Mercury -45566-09-04 05:16 J -14921312.41 -14921312.28 -14921312.16 0.2664 0.0094

Mercury -45563-03-06 05:59 J -14920398.35 -14920398.25 -14920398.15 0.2665 0.1774

Mercury -45556-02-26 09:35 J -14917849.21 -14917849.10 -14917848.99 0.2670 0.1534

Mercury -45553-09-06 01:26 J -14916561.56 -14916561.44 -14916561.33 0.2666 0.0837

Mercury -45546-08-30 17:30 J -14914011.87 -14914011.77 -14914011.68 0.2661 0.1717

Venus -45544-10-11 22:04 J -14913238.70 -14913238.58 -14913238.46 0.2688 0.1744

Mercury -45543-03-01 10:04 J -14913098.22 -14913098.08 -14913097.95 0.2669 0.0401

Mercury -45540-09-08 21:21 J -14911810.70 -14911810.61 -14911810.52 0.2667 0.1695

Venus -45536-10-09 14:09 J -14910319.02 -14910318.91 -14910318.81 0.2686 0.1998

Mercury -45533-09-01 13:54 J -14909261.03 -14909260.92 -14909260.80 0.2663 0.0797

Mercury -45530-03-04 10:47 J -14908347.18 -14908347.05 -14908346.92 0.2667 0.0777

Mercury -45527-09-11 17:02 J -14907059.82 -14907059.79 -14907059.76 0.2669 0.2532

Mercury -45523-02-24 15:21 J -14905797.92 -14905797.86 -14905797.81 0.2672 0.2439

Mercury -45520-09-04 10:18 J -14904510.19 -14904510.07 -14904509.95 0.2664 0.0111

Mercury -45517-03-06 11:45 J -14903596.10 -14903596.01 -14903595.91 0.2665 0.1988

Mercury -45513-08-28 01:54 J -14901960.46 -14901960.42 -14901960.38 0.2660 0.2488

Mercury -45510-02-27 15:21 J -14901046.98 -14901046.86 -14901046.74 0.2670 0.1334

Mercury -45507-09-07 06:28 J -14899759.34 -14899759.23 -14899759.12 0.2666 0.0987

Mercury -45500-08-30 22:33 J -14897209.65 -14897209.56 -14897209.46 0.2661 0.1551

Mercury -45497-03-01 15:50 J -14896295.98 -14896295.84 -14896295.71 0.2668 0.0205

Mercury -45494-09-10 02:23 J -14895008.48 -14895008.40 -14895008.31 0.2668 0.1845

Mercury -45487-09-02 19:11 J -14892458.82 -14892458.70 -14892458.58 0.2663 0.0630

Mercury -45484-03-04 16:33 J -14891544.94 -14891544.81 -14891544.68 0.2667 0.0981

Mercury -45477-02-25 20:52 J -14888995.70 -14888995.63 -14888995.56 0.2672 0.2241

Mercury -45474-09-05 15:35 J -14887707.97 -14887707.85 -14887707.73 0.2665 0.0276

Mercury -45471-03-07 17:45 J -14886793.84 -14886793.76 -14886793.68 0.2665 0.2201

Mercury -45467-08-29 07:11 J -14885158.26 -14885158.20 -14885158.14 0.2660 0.2323

Mercury -45464-02-27 21:06 J -14884244.75 -14884244.62 -14884244.50 0.2670 0.1142

Mercury -45461-09-07 11:30 J -14882957.12 -14882957.02 -14882956.91 0.2666 0.1146

Mercury -45454-09-01 03:50 J -14880407.44 -14880407.34 -14880407.23 0.2662 0.1383

Mercury -45451-03-02 21:21 J -14879493.74 -14879493.61 -14879493.47 0.2668 0.0093

Mercury -45448-09-10 07:26 J -14878206.27 -14878206.19 -14878206.11 0.2668 0.1997

Mercury -45441-09-03 00:28 J -14875656.60 -14875656.48 -14875656.36 0.2663 0.0472

Mercury -45438-03-05 22:18 J -14874742.69 -14874742.57 -14874742.44 0.2666 0.1193

Venus -45438-04-10 16:47 J -14874706.84 -14874706.80 -14874706.77 0.2645 0.2562

Mercury -45431-02-26 02:38 J -14872193.47 -14872193.39 -14872193.31 0.2671 0.2048

Venus -45430-04-08 07:26 J -14871787.33 -14871787.19 -14871787.04 0.2646 0.1209

Mercury -45428-09-05 20:38 J -14870905.76 -14870905.64 -14870905.52 0.2665 0.0425

Mercury -45425-03-07 23:30 J -14869991.57 -14869991.52 -14869991.46 0.2664 0.2410

Mercury -45421-08-29 12:28 J -14868356.05 -14868355.98 -14868355.91 0.2660 0.2152

Mercury -45418-03-01 02:52 J -14867442.51 -14867442.38 -14867442.26 0.2669 0.0937

Mercury -45415-09-08 16:47 J -14866154.91 -14866154.80 -14866154.70 0.2667 0.1298

Mercury -45408-09-01 09:06 J -14863605.23 -14863605.12 -14863605.01 0.2662 0.1221

Mercury -45405-03-03 03:21 J -14862691.50 -14862691.36 -14862691.23 0.2668 0.0222

Mercury -45402-09-11 12:42 J -14861404.04 -14861403.97 -14861403.90 0.2668 0.2147

Mercury -45395-09-04 05:30 J -14858854.39 -14858854.27 -14858854.15 0.2664 0.0313

Mercury -45392-03-06 04:04 J -14857940.45 -14857940.33 -14857940.21 0.2666 0.1398

Mercury -45385-02-27 08:09 J -14855391.25 -14855391.16 -14855391.06 0.2671 0.1857

Mercury -45382-09-07 01:54 J -14854103.54 -14854103.42 -14854103.31 0.2665 0.0589

Mercury -45379-03-09 05:30 J -14853189.29 -14853189.27 -14853189.25 0.2664 0.2628

Mercury -45375-08-30 17:30 J -14851553.85 -14851553.77 -14851553.68 0.2661 0.1989

Mercury -45372-03-01 08:23 J -14850640.28 -14850640.15 -14850640.02 0.2669 0.0741

Mercury -45369-09-08 21:50 J -14849352.69 -14849352.59 -14849352.49 0.2667 0.1450

Mercury -45362-09-02 14:23 J -14846803.02 -14846802.90 -14846802.79 0.2662 0.1056

Mercury -45359-03-04 09:06 J -14845889.26 -14845889.12 -14845888.99 0.2667 0.0421

Mercury -45356-09-11 17:45 J -14844601.82 -14844601.76 -14844601.70 0.2668 0.2297

Mercury -45349-09-04 10:47 J -14842052.17 -14842052.05 -14842051.93 0.2664 0.0156

Mercury -45346-03-07 10:04 J -14841138.19 -14841138.08 -14841137.97 0.2666 0.1613

Mercury -45339-02-27 13:54 J -14838589.02 -14838588.92 -14838588.81 0.2671 0.1661

Mercury -45336-09-07 06:57 J -14837301.33 -14837301.21 -14837301.09 0.2665 0.0737

Mercury -45329-08-30 22:47 J -14834751.63 -14834751.55 -14834751.46 0.2661 0.1818

Mercury -45326-03-02 14:09 J -14833838.04 -14833837.91 -14833837.77 0.2669 0.0538

Mercury -45323-09-10 02:52 J -14832550.47 -14832550.38 -14832550.28 0.2667 0.1607

Mercury -45316-09-02 19:26 J -14830000.80 -14830000.69 -14830000.57 0.2663 0.0895

Mercury -45313-03-04 14:52 J -14829087.02 -14829086.88 -14829086.75 0.2667 0.0624

Mercury -45310-09-12 22:47 J -14827799.59 -14827799.55 -14827799.50 0.2669 0.2444

Mercury -45306-02-25 19:40 J -14826537.72 -14826537.68 -14826537.64 0.2672 0.2556

Mercury -45303-09-05 15:50 J -14825249.96 -14825249.84 -14825249.72 0.2664 0.0061

Venus -45301-10-11 23:45 J -14824482.62 -14824482.51 -14824482.39 0.2687 0.1840

Mercury -45300-03-07 15:50 J -14824335.94 -14824335.84 -14824335.74 0.2665 0.1825

Mercury -45296-08-29 07:11 J -14822700.22 -14822700.20 -14822700.17 0.2660 0.2595

Mercury -45293-02-28 19:40 J -14821786.80 -14821786.68 -14821786.57 0.2670 0.1469

Venus -45293-10-09 15:50 J -14821562.95 -14821562.84 -14821562.73 0.2686 0.1891

Mercury -45290-09-08 11:59 J -14820499.11 -14820499.00 -14820498.88 0.2666 0.0900

Mercury -45283-09-01 04:04 J -14817949.42 -14817949.33 -14817949.23 0.2661 0.1651

Mercury -45280-03-02 19:54 J -14817035.81 -14817035.67 -14817035.54 0.2669 0.0342

Mercury -45277-09-10 08:09 J -14815748.25 -14815748.16 -14815748.07 0.2667 0.1755

Mercury -45270-09-04 00:42 J -14813198.59 -14813198.47 -14813198.35 0.2663 0.0727

Mercury -45267-03-05 20:38 J -14812284.77 -14812284.64 -14812284.51 0.2667 0.0832

Mercury -45264-09-13 03:50 J -14810997.36 -14810997.34 -14810997.31 0.2669 0.2592

Mercury -45260-02-26 01:11 J -14809735.51 -14809735.45 -14809735.39 0.2672 0.2367

Mercury -45257-09-05 21:06 J -14808447.74 -14808447.62 -14808447.50 0.2664 0.0174

Mercury -45254-03-08 21:35 J -14807533.69 -14807533.60 -14807533.51 0.2665 0.2033

Mercury -45250-08-30 12:28 J -14805898.02 -14805897.98 -14805897.93 0.2660 0.2424

Mercury -45247-03-01 01:11 J -14804984.56 -14804984.45 -14804984.33 0.2670 0.1275

Mercury -45244-09-08 17:16 J -14803696.89 -14803696.78 -14803696.67 0.2666 0.1050

Mercury -45237-09-01 09:21 J -14801147.21 -14801147.11 -14801147.01 0.2661 0.1483

Mercury -45234-03-04 01:40 J -14800233.57 -14800233.43 -14800233.29 0.2668 0.0138

Mercury -45231-09-11 13:11 J -14798946.03 -14798945.95 -14798945.87 0.2668 0.1904

Mercury -45224-09-04 05:59 J -14796396.37 -14796396.25 -14796396.13 0.2663 0.0569

Mercury -45221-03-06 02:23 J -14795482.53 -14795482.40 -14795482.27 0.2666 0.1032

Mercury -45214-02-27 06:57 J -14792933.29 -14792933.21 -14792933.13 0.2672 0.2175

Mercury -45211-09-07 02:09 J -14791645.53 -14791645.41 -14791645.28 0.2665 0.0349

Mercury -45208-03-09 03:35 J -14790731.43 -14790731.35 -14790731.28 0.2665 0.2246

Mercury -45204-08-30 17:45 J -14789095.82 -14789095.76 -14789095.69 0.2660 0.2256

Mercury -45201-03-01 06:57 J -14788182.33 -14788182.21 -14788182.09 0.2670 0.1076

Mercury -45198-09-09 22:18 J -14786894.67 -14786894.57 -14786894.46 0.2666 0.1206

Venus -45195-04-10 17:02 J -14785950.81 -14785950.79 -14785950.76 0.2645 0.2612

Mercury -45191-09-02 14:38 J -14784345.00 -14784344.89 -14784344.79 0.2662 0.1319

Mercury -45188-03-04 07:26 J -14783431.33 -14783431.19 -14783431.05 0.2668 0.0070

Venus -45187-04-08 08:09 J -14783031.31 -14783031.16 -14783031.02 0.2647 0.1151

Mercury -45185-09-11 18:14 J -14782143.81 -14782143.74 -14782143.66 0.2668 0.2056

Mercury -45178-09-05 11:02 J -14779594.16 -14779594.04 -14779593.92 0.2663 0.0409

Mercury -45175-03-07 08:09 J -14778680.28 -14778680.16 -14778680.04 0.2666 0.1243

Mercury -45168-02-27 12:28 J -14776131.06 -14776130.98 -14776130.89 0.2671 0.1985

Mercury -45165-09-07 07:26 J -14774843.31 -14774843.19 -14774843.07 0.2665 0.0487

Mercury -45162-03-10 09:21 J -14773929.16 -14773929.11 -14773929.06 0.2664 0.2453

Mercury -45158-08-31 23:02 J -14772293.61 -14772293.54 -14772293.46 0.2660 0.2086

Mercury -45155-03-02 12:42 J -14771380.10 -14771379.97 -14771379.84 0.2669 0.0876

Mercury -45152-09-10 03:35 J -14770092.45 -14770092.35 -14770092.25 0.2667 0.1359

Mercury -45145-09-02 19:54 J -14767542.79 -14767542.67 -14767542.56 0.2662 0.1158

Mercury -45142-03-05 13:11 J -14766629.09 -14766628.95 -14766628.82 0.2668 0.0273

Mercury -45139-09-12 23:30 J -14765341.59 -14765341.52 -14765341.46 0.2668 0.2207

Mercury -45132-09-05 16:18 J -14762791.94 -14762791.82 -14762791.70 0.2664 0.0246

Mercury -45129-03-07 13:54 J -14761878.03 -14761877.92 -14761877.80 0.2666 0.1448

Mercury -45122-02-28 18:14 J -14759328.84 -14759328.74 -14759328.64 0.2671 0.1787

Mercury -45119-09-08 12:42 J -14758041.09 -14758040.97 -14758040.86 0.2665 0.0654

Mercury -45112-09-01 04:18 J -14755491.40 -14755491.32 -14755491.23 0.2661 0.1920

Mercury -45109-03-02 18:28 J -14754577.87 -14754577.73 -14754577.60 0.2669 0.0684

Mercury -45106-09-11 08:38 J -14753290.24 -14753290.14 -14753290.04 0.2667 0.1511

Mercury -45099-09-04 00:57 J -14750740.57 -14750740.46 -14750740.34 0.2662 0.0991

Mercury -45096-03-05 18:57 J -14749826.85 -14749826.71 -14749826.58 0.2667 0.0473

Mercury -45093-09-13 04:33 J -14748539.36 -14748539.31 -14748539.26 0.2669 0.2354

Mercury -45089-02-26 23:59 J -14747277.50 -14747277.50 -14747277.50 0.2672 0.2672

Mercury -45086-09-06 21:35 J -14745989.73 -14745989.60 -14745989.48 0.2664 0.0129

Mercury -45083-03-08 19:40 J -14745075.78 -14745075.68 -14745075.57 0.2666 0.1659

Mercury -45076-02-28 23:59 J -14742526.61 -14742526.50 -14742526.39 0.2671 0.1595

Mercury -45073-09-08 17:45 J -14741238.88 -14741238.76 -14741238.65 0.2666 0.0801

Mercury -45066-09-02 09:35 J -14738689.19 -14738689.10 -14738689.01 0.2661 0.1752

Mercury -45063-03-04 00:14 J -14737775.63 -14737775.49 -14737775.36 0.2669 0.0482

Mercury -45060-09-11 13:40 J -14736488.02 -14736487.93 -14736487.83 0.2667 0.1665

Venus -45058-10-13 01:40 J -14735726.53 -14735726.43 -14735726.32 0.2686 0.1956

Mercury -45053-09-04 06:14 J -14733938.36 -14733938.24 -14733938.12 0.2663 0.0830

Mercury -45050-03-07 00:42 J -14733024.60 -14733024.47 -14733024.34 0.2667 0.0675

Venus -45050-10-10 17:30 J -14732806.88 -14732806.77 -14732806.65 0.2685 0.1791

Mercury -45047-09-14 09:35 J -14731737.14 -14731737.10 -14731737.06 0.2669 0.2503

Mercury -45043-02-27 05:45 J -14730475.31 -14730475.26 -14730475.22 0.2672 0.2486

Mercury -45040-09-07 02:38 J -14729187.51 -14729187.39 -14729187.27 0.2664 0.0086

Mercury -45037-03-09 01:40 J -14728273.53 -14728273.43 -14728273.34 0.2665 0.1866

Mercury -45033-08-30 17:59 J -14726637.79 -14726637.75 -14726637.72 0.2660 0.2529

Mercury -45030-03-02 05:30 J -14725724.38 -14725724.27 -14725724.15 0.2670 0.1403

Mercury -45027-09-09 22:47 J -14724436.66 -14724436.55 -14724436.43 0.2666 0.0962

Mercury -45020-09-02 14:52 J -14721886.98 -14721886.88 -14721886.79 0.2661 0.1589

Mercury -45017-03-04 05:45 J -14720973.39 -14720973.26 -14720973.12 0.2669 0.0289

Mercury -45014-09-12 18:57 J -14719685.80 -14719685.71 -14719685.63 0.2667 0.1814

Mercury -45007-09-05 11:30 J -14717136.14 -14717136.02 -14717135.91 0.2663 0.0668

Mercury -45004-03-07 06:28 J -14716222.36 -14716222.23 -14716222.10 0.2667 0.0883

Mercury -45001-09-14 14:38 J -14714934.90 -14714934.89 -14714934.88 0.2669 0.2651

45TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 45th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-44997-02-28 11:16 J	-14713673.09	-14713673.03	-14713672.96	0.2672	0.2297		
Mercury	-44994-09-08 07:54 J	-14712385.29	-14712385.17	-14712385.05	0.2665	0.0246		
Mercury	-44991-03-10 07:26 J	-14711471.28	-14711471.19	-14711471.10	0.2665	0.2077		
Mercury	-44987-08-31 23:16 J	-14709835.59	-14709835.53	-14709835.48	0.2660	0.2358		
Mercury	-44984-03-02 11:16 J	-14708922.15	-14708922.03	-14708921.91	0.2670	0.1207		
Mercury	-44981-09-10 04:04 J	-14707634.44	-14707634.33	-14707634.22	0.2666	0.1110		
Mercury	-44974-09-03 20:09 J	-14705084.77	-14705084.66	-14705084.56	0.2662	0.1422		

Mercury -44971-03-05 11:30 J -14704171.15 -14704171.02 -14704170.88 0.2668 0.0091

Mercury -44968-09-12 23:59 J -14702883.58 -14702883.50 -14702883.42 0.2668 0.1966

Mercury -44961-09-05 16:33 J -14700333.93 -14700333.81 -14700333.69 0.2663 0.0507

Mercury -44958-03-08 12:14 J -14699420.12 -14699419.99 -14699419.87 0.2666 0.1084

Mercury -44951-02-28 17:02 J -14696870.87 -14696870.79 -14696870.71 0.2671 0.2108

Mercury -44948-09-08 12:57 J -14695583.08 -14695582.96 -14695582.84 0.2665 0.0396

Mercury -44945-03-10 13:11 J -14694669.01 -14694668.95 -14694668.88 0.2665 0.2291

Venus -44944-04-08 09:06 J -14694275.27 -14694275.12 -14694274.97 0.2647 0.1034

Mercury -44941-09-01 04:33 J -14693033.38 -14693033.31 -14693033.24 0.2660 0.2190

Mercury -44938-03-03 17:02 J -14692119.92 -14692119.79 -14692119.67 0.2670 0.1017

Mercury -44935-09-11 09:06 J -14690832.22 -14690832.12 -14690832.01 0.2666 0.1265

Mercury -44928-09-04 01:11 J -14688282.55 -14688282.45 -14688282.34 0.2662 0.1257

Mercury -44925-03-05 17:16 J -14687368.92 -14687368.78 -14687368.64 0.2668 0.0120

Mercury -44922-09-14 05:02 J -14686081.36 -14686081.29 -14686081.22 0.2668 0.2114

Mercury -44915-09-06 21:50 J -14683531.71 -14683531.59 -14683531.47 0.2663 0.0340

Mercury -44912-03-08 17:59 J -14682617.87 -14682617.75 -14682617.63 0.2666 0.1293

Mercury -44905-02-29 22:33 J -14680068.65 -14680068.56 -14680068.47 0.2671 0.1915

Mercury -44902-09-09 18:14 J -14678780.86 -14678780.74 -14678780.62 0.2665 0.0551

Mercury -44899-03-11 18:57 J -14677866.75 -14677866.71 -14677866.66 0.2664 0.2498

Mercury -44895-09-02 09:50 J -14676231.17 -14676231.09 -14676231.02 0.2661 0.2023

Mercury -44892-03-03 22:33 J -14675317.69 -14675317.56 -14675317.43 0.2669 0.0819

Mercury -44889-09-11 14:23 J -14674030.01 -14674029.90 -14674029.80 0.2667 0.1420

Mercury -44882-09-05 06:28 J -14671480.34 -14671480.23 -14671480.12 0.2662 0.1090

Mercury -44879-03-06 23:02 J -14670566.68 -14670566.54 -14670566.41 0.2668 0.0321

Mercury -44876-09-14 10:18 J -14669279.13 -14669279.07 -14669279.01 0.2669 0.2265

Mercury -44869-09-07 03:06 J -14666729.49 -14666729.37 -14666729.25 0.2664 0.0186

Mercury -44866-03-09 23:45 J -14665815.62 -14665815.51 -14665815.40 0.2666 0.1493

Mercury -44859-03-02 04:18 J -14663266.42 -14663266.32 -14663266.22 0.2671 0.1726

Mercury -44856-09-09 23:16 J -14661978.64 -14661978.53 -14661978.41 0.2665 0.0713

Mercury -44849-09-02 14:52 J -14659428.96 -14659428.88 -14659428.79 0.2661 0.1857

Mercury -44846-03-05 04:18 J -14658515.45 -14658515.32 -14658515.19 0.2669 0.0619

Mercury -44843-09-12 19:26 J -14657227.79 -14657227.69 -14657227.59 0.2667 0.1570

Mercury -44836-09-05 11:45 J -14654678.13 -14654678.01 -14654677.90 0.2662 0.0926

Mercury -44833-03-07 04:47 J -14653764.44 -14653764.30 -14653764.17 0.2667 0.0523

Mercury -44830-09-15 15:21 J -14652476.91 -14652476.86 -14652476.81 0.2669 0.2413

Mercury -44826-02-28 10:04 J -14651215.10 -14651215.08 -14651215.05 0.2672 0.2602

Mercury -44823-09-08 08:09 J -14649927.28 -14649927.16 -14649927.04 0.2664 0.0055

Mercury -44820-03-10 05:30 J -14649013.37 -14649013.27 -14649013.16 0.2666 0.1705

Mercury -44816-08-31 23:16 J -14647377.54 -14647377.53 -14647377.52 0.2660 0.2634

Venus -44815-10-13 03:21 J -14646970.45 -14646970.36 -14646970.26 0.2685 0.2067

Mercury -44813-03-02 09:50 J -14646464.19 -14646464.09 -14646463.98 0.2671 0.1532

Mercury -44810-09-11 04:33 J -14645176.43 -14645176.31 -14645176.20 0.2666 0.0862

Venus -44807-10-10 19:11 J -14644050.82 -14644050.70 -14644050.58 0.2684 0.1695

Mercury -44803-09-03 20:09 J -14642626.75 -14642626.66 -14642626.56 0.2661 0.1688

Mercury -44800-03-05 10:04 J -14641713.22 -14641713.08 -14641712.95 0.2669 0.0421

Mercury -44797-09-13 00:42 J -14640425.57 -14640425.47 -14640425.38 0.2667 0.1728

Mercury -44790-09-06 17:02 J -14637875.91 -14637875.79 -14637875.68 0.2663 0.0769

Mercury -44787-03-08 10:33 J -14636962.20 -14636962.06 -14636961.93 0.2667 0.0727

Mercury -44784-09-15 20:23 J -14635674.68 -14635674.65 -14635674.62 0.2669 0.2563

Mercury -44780-02-28 15:50 J -14634412.90 -14634412.84 -14634412.79 0.2672 0.2415

Mercury -44777-09-08 13:26 J -14633125.06 -14633124.94 -14633124.82 0.2664 0.0140

Mercury -44774-03-11 11:16 J -14632211.12 -14632211.03 -14632210.93 0.2665 0.1914

Mercury -44770-09-02 04:33 J -14630575.35 -14630575.31 -14630575.27 0.2660 0.2465

Mercury -44767-03-03 15:35 J -14629661.97 -14629661.85 -14629661.73 0.2670 0.1337

Mercury -44764-09-11 09:35 J -14628374.21 -14628374.10 -14628373.99 0.2666 0.1020

Mercury -44757-09-04 01:26 J -14625824.54 -14625824.44 -14625824.34 0.2661 0.1522

Mercury -44754-03-06 15:50 J -14624910.98 -14624910.84 -14624910.71 0.2669 0.0231

Mercury -44751-09-14 05:45 J -14623623.35 -14623623.26 -14623623.18 0.2668 0.1874

Mercury -44744-09-06 22:04 J -14621073.70 -14621073.58 -14621073.46 0.2663 0.0606

Mercury -44741-03-08 16:18 J -14620159.95 -14620159.82 -14620159.69 0.2667 0.0933

Mercury -44734-03-01 21:21 J -14617610.68 -14617610.61 -14617610.54 0.2672 0.2225

Mercury -44731-09-09 18:28 J -14616322.85 -14616322.73 -14616322.60 0.2664 0.0308

Mercury -44728-03-11 17:16 J -14615408.86 -14615408.78 -14615408.70 0.2665 0.2121

Mercury -44724-09-02 09:50 J -14613773.15 -14613773.09 -14613773.03 0.2660 0.2295

Mercury -44721-03-03 21:21 J -14612859.74 -14612859.61 -14612859.49 0.2670 0.1146

Mercury -44718-09-12 14:52 J -14611571.99 -14611571.88 -14611571.78 0.2666 0.1173

Mercury -44711-09-05 06:42 J -14609022.33 -14609022.22 -14609022.11 0.2662 0.1356

Mercury -44708-03-06 21:35 J -14608108.74 -14608108.60 -14608108.47 0.2668 0.0093

Mercury -44705-09-14 10:47 J -14606821.12 -14606821.05 -14606820.97 0.2668 0.2027

Venus -44701-04-08 09:50 J -14605519.24 -14605519.09 -14605518.94 0.2648 0.0948

Mercury -44698-09-08 03:21 J -14604271.48 -14604271.36 -14604271.24 0.2663 0.0441

Mercury -44695-03-09 22:04 J -14603357.70 -14603357.58 -14603357.46 0.2666 0.1135

Mercury -44688-03-02 02:52 J -14600808.46 -14600808.38 -14600808.29 0.2671 0.2044

Mercury -44685-09-09 23:45 J -14599520.63 -14599520.51 -14599520.39 0.2665 0.0455

Mercury -44682-03-12 23:02 J -14598606.60 -14598606.54 -14598606.47 0.2665 0.2333

Mercury -44678-09-03 15:06 J -14596970.94 -14596970.87 -14596970.80 0.2660 0.2125

Mercury -44675-03-05 02:52 J -14596057.50 -14596057.38 -14596057.25 0.2670 0.0950

Mercury -44672-09-12 19:54 J -14594769.77 -14594769.67 -14594769.56 0.2666 0.1327

Mercury -44665-09-05 11:59 J -14592220.11 -14592220.00 -14592219.89 0.2662 0.1192

Mercury -44662-03-08 03:06 J -14591306.50 -14591306.37 -14591306.23 0.2668 0.0197

Mercury -44659-09-15 15:50 J -14590018.90 -14590018.84 -14590018.77 0.2668 0.2176

Mercury -44652-09-08 08:38 J -14587469.27 -14587469.14 -14587469.02 0.2664 0.0290

Mercury -44649-03-10 03:50 J -14586555.46 -14586555.34 -14586555.22 0.2666 0.1344

Mercury -44642-03-03 08:38 J -14584006.24 -14584006.14 -14584006.04 0.2671 0.1849

Mercury -44639-09-11 04:47 J -14582718.41 -14582718.30 -14582718.18 0.2665 0.0617

Mercury -44636-03-13 04:47 J -14581804.33 -14581804.30 -14581804.26 0.2664 0.2544

Mercury -44632-09-03 20:23 J -14580168.73 -14580168.65 -14580168.57 0.2661 0.1957

Mercury -44629-03-05 08:38 J -14579255.27 -14579255.14 -14579255.01 0.2669 0.0756

Mercury -44626-09-14 01:11 J -14577967.55 -14577967.45 -14577967.35 0.2667 0.1480

Mercury -44619-09-06 17:16 J -14575417.90 -14575417.78 -14575417.67 0.2662 0.1028

Mercury -44616-03-08 08:52 J -14574504.26 -14574504.13 -14574503.99 0.2668 0.0378
 Mercury -44613-09-15 21:06 J -14573216.68 -14573216.62 -14573216.57 0.2668 0.2325
 Mercury -44606-09-09 13:40 J -14570667.05 -14570666.93 -14570666.80 0.2664 0.0136
 Mercury -44603-03-11 09:35 J -14569753.21 -14569753.10 -14569752.99 0.2666 0.1548
 Mercury -44596-03-03 14:09 J -14567204.01 -14567203.91 -14567203.80 0.2671 0.1663
 Mercury -44593-09-11 10:04 J -14565916.19 -14565916.08 -14565915.96 0.2666 0.0769
 Mercury -44586-09-05 01:40 J -14563366.52 -14563366.43 -14563366.34 0.2661 0.1788
 Mercury -44583-03-06 14:09 J -14562453.04 -14562452.91 -14562452.77 0.2669 0.0567
 Mercury -44580-09-14 06:14 J -14561165.33 -14561165.24 -14561165.15 0.2667 0.1631
 Mercury -44573-09-06 22:33 J -14558615.68 -14558615.56 -14558615.45 0.2662 0.0868
 Venus -44572-10-13 05:02 J -14558214.38 -14558214.29 -14558214.20 0.2685 0.2168
 Mercury -44570-03-09 14:38 J -14557702.02 -14557701.89 -14557701.75 0.2667 0.0580
 Mercury -44567-09-17 02:09 J -14556414.45 -14556414.41 -14556414.37 0.2669 0.2470
 Venus -44564-10-10 20:38 J -14555294.77 -14555294.64 -14555294.51 0.2683 0.1596
 Mercury -44563-03-01 20:09 J -14555152.70 -14555152.66 -14555152.62 0.2672 0.2533
 Mercury -44560-09-09 18:57 J -14553864.83 -14553864.71 -14553864.59 0.2664 0.0043
 Mercury -44557-03-11 15:21 J -14552950.96 -14552950.86 -14552950.75 0.2666 0.1756
 Mercury -44553-09-02 09:50 J -14551315.11 -14551315.09 -14551315.06 0.2660 0.2570
 Mercury -44550-03-04 19:54 J -14550401.78 -14550401.67 -14550401.56 0.2670 0.1467
 Mercury -44547-09-12 15:21 J -14549113.98 -14549113.86 -14549113.75 0.2666 0.0926
 Mercury -44540-09-05 06:57 J -14546564.31 -14546564.21 -14546564.12 0.2661 0.1624
 Mercury -44537-03-06 19:54 J -14545650.80 -14545650.67 -14545650.53 0.2669 0.0367
 Mercury -44534-09-15 11:16 J -14544363.11 -14544363.03 -14544362.94 0.2668 0.1785
 Mercury -44527-09-08 03:35 J -14541813.47 -14541813.35 -14541813.23 0.2663 0.0701
 Mercury -44524-03-09 20:23 J -14540899.78 -14540899.65 -14540899.52 0.2667 0.0778
 Mercury -44521-09-17 07:11 J -14539612.22 -14539612.20 -14539612.18 0.2669 0.2622
 Mercury -44517-03-02 01:54 J -14538350.48 -14538350.42 -14538350.36 0.2672 0.2347
 Mercury -44514-09-11 00:14 J -14537062.61 -14537062.49 -14537062.37 0.2664 0.0211
 Mercury -44511-03-12 21:06 J -14536148.71 -14536148.62 -14536148.52 0.2665 0.1959
 Mercury -44507-09-03 15:06 J -14534512.92 -14534512.87 -14534512.82 0.2660 0.2402

Mercury -44504-03-05 01:40 J -14533599.55 -14533599.43 -14533599.32 0.2670 0.1278

Mercury -44501-09-12 20:23 J -14532311.76 -14532311.65 -14532311.54 0.2666 0.1082

Mercury -44494-09-06 12:14 J -14529762.10 -14529761.99 -14529761.89 0.2661 0.1460

Mercury -44491-03-08 01:40 J -14528848.56 -14528848.43 -14528848.29 0.2669 0.0167

Mercury -44488-09-15 16:33 J -14527560.89 -14527560.81 -14527560.73 0.2668 0.1934

Mercury -44481-09-08 08:52 J -14525011.25 -14525011.13 -14525011.01 0.2663 0.0538

Mercury -44478-03-11 02:09 J -14524097.54 -14524097.41 -14524097.28 0.2667 0.0983

Mercury -44471-03-03 07:26 J -14521548.27 -14521548.19 -14521548.11 0.2672 0.2158

Mercury -44468-09-11 05:16 J -14520260.40 -14520260.28 -14520260.16 0.2665 0.0361

Mercury -44465-03-13 03:06 J -14519346.45 -14519346.37 -14519346.29 0.2665 0.2167

Mercury -44461-09-03 20:23 J -14517710.71 -14517710.65 -14517710.58 0.2660 0.2233

Mercury -44458-03-06 07:11 J -14516797.32 -14516797.20 -14516797.07 0.2670 0.1082

Venus -44458-04-09 11:16 J -14516763.18 -14516763.03 -14516762.88 0.2649 0.0814

Mercury -44455-09-14 01:40 J -14515509.54 -14515509.43 -14515509.33 0.2666 0.1234

Mercury -44448-09-06 17:16 J -14512959.88 -14512959.78 -14512959.67 0.2662 0.1297

Mercury -44445-03-08 07:26 J -14512046.33 -14512046.19 -14512046.05 0.2668 0.0036

Mercury -44442-09-16 21:35 J -14510758.67 -14510758.60 -14510758.52 0.2668 0.2088

Mercury -44435-09-09 14:09 J -14508209.04 -14508208.91 -14508208.79 0.2663 0.0388

Mercury -44432-03-11 07:54 J -14507295.29 -14507295.17 -14507295.04 0.2667 0.1188

Mercury -44425-03-03 12:57 J -14504746.04 -14504745.96 -14504745.87 0.2671 0.1974

Mercury -44422-09-12 10:33 J -14503458.18 -14503458.06 -14503457.94 0.2665 0.0516

Mercury -44419-03-14 08:52 J -14502544.19 -14502544.13 -14502544.07 0.2665 0.2374

Mercury -44415-09-05 01:40 J -14500908.50 -14500908.43 -14500908.35 0.2661 0.2064

Mercury -44412-03-06 12:57 J -14499995.09 -14499994.96 -14499994.83 0.2670 0.0889

Mercury -44409-09-14 06:42 J -14498707.32 -14498707.22 -14498707.12 0.2667 0.1388

Mercury -44402-09-07 22:33 J -14496157.67 -14496157.56 -14496157.44 0.2662 0.1130

Mercury -44399-03-09 13:11 J -14495244.09 -14495243.95 -14495243.81 0.2668 0.0236

Mercury -44396-09-17 02:38 J -14493956.45 -14493956.39 -14493956.32 0.2668 0.2235

Mercury -44389-09-09 19:11 J -14491406.82 -14491406.70 -14491406.57 0.2664 0.0228

Mercury -44386-03-12 13:40 J -14490493.04 -14490492.93 -14490492.81 0.2666 0.1396

Mercury -44379-03-04 18:42 J -14487943.82 -14487943.72 -14487943.62 0.2671 0.1781

Mercury -44376-09-12 15:35 J -14486655.96 -14486655.85 -14486655.73 0.2665 0.0678

Mercury -44373-03-14 14:38 J -14485741.92 -14485741.89 -14485741.86 0.2664 0.2584

Mercury -44369-09-05 06:57 J -14484106.29 -14484106.21 -14484106.12 0.2661 0.1896

Mercury -44366-03-07 18:42 J -14483192.85 -14483192.72 -14483192.59 0.2669 0.0698

Mercury -44363-09-15 11:59 J -14481905.10 -14481905.00 -14481904.91 0.2667 0.1541

Mercury -44356-09-08 03:50 J -14479355.45 -14479355.34 -14479355.22 0.2662 0.0965

Mercury -44353-03-09 18:57 J -14478441.85 -14478441.71 -14478441.58 0.2667 0.0436

Mercury -44350-09-18 07:54 J -14477154.22 -14477154.17 -14477154.12 0.2669 0.2385

Mercury -44346-03-03 00:42 J -14475892.48 -14475892.47 -14475892.46 0.2672 0.2649

Mercury -44343-09-11 00:28 J -14474604.60 -14474604.48 -14474604.36 0.2664 0.0059

Mercury -44340-03-12 19:26 J -14473690.80 -14473690.69 -14473690.58 0.2666 0.1597

Mercury -44333-03-05 00:14 J -14471141.59 -14471141.49 -14471141.38 0.2671 0.1598

Mercury -44330-09-13 20:52 J -14469853.75 -14469853.63 -14469853.51 0.2666 0.0829

Venus -44329-10-13 06:42 J -14469458.30 -14469458.22 -14469458.14 0.2684 0.2276

Mercury -44323-09-06 12:14 J -14467304.08 -14467303.99 -14467303.89 0.2661 0.1728

Venus -44321-10-10 22:04 J -14466538.71 -14466538.58 -14466538.45 0.2683 0.1495

Mercury -44320-03-08 00:14 J -14466390.62 -14466390.49 -14466390.35 0.2669 0.0501

Mercury -44317-09-15 17:02 J -14465102.88 -14465102.79 -14465102.70 0.2667 0.1691

Mercury -44310-09-09 09:06 J -14462553.24 -14462553.12 -14462553.00 0.2663 0.0800

Mercury -44307-03-11 00:42 J -14461639.61 -14461639.47 -14461639.34 0.2667 0.0635

Mercury -44304-09-18 12:57 J -14460351.99 -14460351.96 -14460351.92 0.2669 0.2530

Mercury -44300-03-03 06:14 J -14459090.29 -14459090.24 -14459090.19 0.2672 0.2468

Mercury -44297-09-11 05:45 J -14457802.39 -14457802.26 -14457802.14 0.2664 0.0123

Mercury -44294-03-14 01:11 J -14456888.55 -14456888.45 -14456888.34 0.2665 0.1803

Mercury -44290-09-04 20:38 J -14455252.68 -14455252.64 -14455252.60 0.2660 0.2504

Mercury -44287-03-06 05:59 J -14454339.36 -14454339.25 -14454339.14 0.2670 0.1402

Mercury -44284-09-14 01:54 J -14453051.53 -14453051.42 -14453051.30 0.2666 0.0988

Mercury -44277-09-06 17:30 J -14450501.87 -14450501.77 -14450501.67 0.2661 0.1561

Mercury -44274-03-09 05:59 J -14449588.38 -14449588.25 -14449588.11 0.2669 0.0306

Mercury -44271-09-16 22:04 J -14448300.66 -14448300.58 -14448300.49 0.2668 0.1845

Mercury -44264-09-09 14:23 J -14445751.02 -14445750.90 -14445750.78 0.2663 0.0638

Mercury -44261-03-11 06:14 J -14444837.37 -14444837.24 -14444837.11 0.2667 0.0836

Mercury -44254-03-04 11:59 J -14442288.07 -14442288.00 -14442287.94 0.2672 0.2280

Mercury -44251-09-12 10:47 J -14441000.17 -14441000.05 -14440999.92 0.2665 0.0280

Mercury -44248-03-14 07:11 J -14440086.29 -14440086.20 -14440086.11 0.2665 0.2007

Mercury -44244-09-05 01:54 J -14438450.48 -14438450.42 -14438450.37 0.2660 0.2338

Mercury -44241-03-06 11:30 J -14437537.14 -14437537.02 -14437536.90 0.2670 0.1217

Mercury -44238-09-15 07:11 J -14436249.31 -14436249.20 -14436249.09 0.2666 0.1140

Mercury -44231-09-07 22:47 J -14433699.65 -14433699.55 -14433699.44 0.2662 0.1393

Mercury -44228-03-09 11:45 J -14432786.15 -14432786.01 -14432785.88 0.2668 0.0130

Mercury -44225-09-17 03:21 J -14431498.44 -14431498.36 -14431498.28 0.2668 0.1994

Mercury -44218-09-10 19:40 J -14428948.80 -14428948.68 -14428948.56 0.2663 0.0481

Mercury -44215-03-12 12:14 J -14428035.12 -14428034.99 -14428034.87 0.2667 0.1038

Venus -44215-04-09 12:28 J -14428007.14 -14428006.98 -14428006.83 0.2649 0.0701

Mercury -44208-03-04 17:30 J -14425485.85 -14425485.77 -14425485.69 0.2672 0.2090

Mercury -44205-09-12 16:04 J -14424197.95 -14424197.83 -14424197.71 0.2665 0.0422

Mercury -44202-03-15 12:57 J -14423284.04 -14423283.96 -14423283.89 0.2665 0.2211

Mercury -44198-09-06 07:11 J -14421648.27 -14421648.20 -14421648.13 0.2660 0.2168

Mercury -44195-03-07 17:16 J -14420734.90 -14420734.78 -14420734.65 0.2670 0.1019

Mercury -44192-09-15 12:28 J -14419447.09 -14419446.98 -14419446.88 0.2666 0.1297

Mercury -44185-09-08 04:04 J -14416897.44 -14416897.33 -14416897.22 0.2662 0.1231

Mercury -44182-03-10 17:16 J -14415983.91 -14415983.78 -14415983.64 0.2668 0.0113

Mercury -44179-09-18 08:23 J -14414696.22 -14414696.15 -14414696.08 0.2668 0.2146

Mercury -44172-09-11 00:42 J -14412146.59 -14412146.47 -14412146.34 0.2663 0.0322

Mercury -44169-03-12 17:45 J -14411232.88 -14411232.76 -14411232.64 0.2666 0.1234

Mercury -44162-03-05 23:02 J -14408683.63 -14408683.54 -14408683.44 0.2671 0.1908

Mercury -44159-09-13 21:21 J -14407395.73 -14407395.61 -14407395.49 0.2665 0.0583

Mercury -44156-03-15 18:42 J -14406481.78 -14406481.72 -14406481.66 0.2665 0.2419

Mercury -44152-09-06 12:28 J -14404846.06 -14404845.98 -14404845.90 0.2661 0.2002

Mercury -44149-03-07 23:02 J -14403932.67 -14403932.54 -14403932.41 0.2670 0.0826

Mercury -44146-09-16 17:30 J -14402644.87 -14402644.77 -14402644.67 0.2667 0.1448

Mercury -44139-09-09 09:21 J -14400095.22 -14400095.11 -14400095.00 0.2662 0.1064

Mercury -44136-03-10 23:02 J -14399181.67 -14399181.54 -14399181.40 0.2668 0.0301

Mercury -44133-09-18 13:40 J -14397893.99 -14397893.93 -14397893.87 0.2668 0.2295

Mercury -44126-09-12 05:59 J -14395344.37 -14395344.25 -14395344.13 0.2664 0.0154

Mercury -44123-03-13 23:30 J -14394430.63 -14394430.52 -14394430.40 0.2666 0.1440

Mercury -44116-03-06 04:47 J -14391881.40 -14391881.30 -14391881.20 0.2671 0.1714

Mercury -44113-09-14 02:23 J -14390593.52 -14390593.40 -14390593.28 0.2665 0.0734

Mercury -44110-03-17 00:28 J -14389679.50 -14389679.48 -14389679.46 0.2664 0.2626

Mercury -44106-09-07 17:45 J -14388043.85 -14388043.76 -14388043.67 0.2661 0.1833

Mercury -44103-03-09 04:33 J -14387130.44 -14387130.31 -14387130.17 0.2669 0.0637

Mercury -44100-09-16 22:47 J -14385842.65 -14385842.55 -14385842.46 0.2667 0.1603

Mercury -44093-09-09 14:38 J -14383293.01 -14383292.89 -14383292.78 0.2662 0.0905

Mercury -44090-03-12 04:47 J -14382379.43 -14382379.30 -14382379.16 0.2667 0.0486

Mercury -44087-09-19 18:42 J -14381091.76 -14381091.72 -14381091.67 0.2669 0.2444

Venus -44086-10-14 08:09 J -14380702.23 -14380702.16 -14380702.09 0.2683 0.2380

Mercury -44083-03-04 10:47 J -14379830.08 -14379830.05 -14379830.02 0.2672 0.2579

Mercury -44080-09-12 11:16 J -14378542.16 -14378542.03 -14378541.91 0.2664 0.0067

Venus -44078-10-11 23:16 J -14377782.66 -14377782.53 -14377782.39 0.2682 0.1420

Mercury -44077-03-14 05:30 J -14377628.38 -14377628.27 -14377628.17 0.2666 0.1648

Mercury -44073-09-05 01:54 J -14375992.44 -14375992.42 -14375992.40 0.2660 0.2615

Mercury -44070-03-07 10:18 J -14375079.18 -14375079.07 -14375078.96 0.2671 0.1532

Mercury -44067-09-15 07:40 J -14373791.30 -14373791.18 -14373791.07 0.2666 0.0891

Mercury -44060-09-07 23:02 J -14371241.64 -14371241.54 -14371241.45 0.2661 0.1663

Mercury -44057-03-09 10:18 J -14370328.21 -14370328.07 -14370327.94 0.2669 0.0442

Mercury -44054-09-18 03:50 J -14369040.43 -14369040.34 -14369040.25 0.2667 0.1752

Mercury -44047-09-10 19:54 J -14366490.79 -14366490.67 -14366490.56 0.2663 0.0742

Mercury -44044-03-12 10:33 J -14365577.19 -14365577.06 -14365576.93 0.2667 0.0689

Mercury -44041-09-19 23:45 J -14364289.53 -14364289.51 -14364289.48 0.2669 0.2590

Mercury -44037-03-04 16:18 J -14363027.87 -14363027.82 -14363027.76 0.2672 0.2399

Mercury -44034-09-13 16:18 J -14361739.94 -14361739.82 -14361739.69 0.2664 0.0176

Mercury -44031-03-15 11:16 J -14360826.13 -14360826.03 -14360825.93 0.2665 0.1849

Mercury -44027-09-06 07:11 J -14359190.25 -14359190.20 -14359190.15 0.2660 0.2441

Mercury -44024-03-07 16:04 J -14358276.95 -14358276.83 -14358276.72 0.2670 0.1338

Mercury -44021-09-15 12:42 J -14356989.08 -14356988.97 -14356988.86 0.2666 0.1046

Mercury -44014-09-09 04:18 J -14354439.42 -14354439.32 -14354439.22 0.2661 0.1500

Mercury -44011-03-10 16:04 J -14353525.97 -14353525.83 -14353525.70 0.2669 0.0262

Mercury -44008-09-18 08:52 J -14352238.21 -14352238.13 -14352238.04 0.2668 0.1903

Mercury -44001-09-11 00:57 J -14349688.58 -14349688.46 -14349688.34 0.2663 0.0581

44TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 44th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-43998-03-13 16:18 J	-14348774.95	-14348774.82	-14348774.69	0.2667	0.0885		
Mercury	-43991-03-05 22:04 J	-14346225.66	-14346225.58	-14346225.51	0.2672	0.2213		
Mercury	-43988-09-13 21:35 J	-14344937.72	-14344937.60	-14344937.48	0.2665	0.0325		
Mercury	-43985-03-15 17:02 J	-14344023.88	-14344023.79	-14344023.71	0.2665	0.2055		
Mercury	-43981-09-06 12:28 J	-14342388.04	-14342387.98	-14342387.92	0.2660	0.2274		
Mercury	-43978-03-08 21:35 J	-14341474.72	-14341474.60	-14341474.48	0.2670	0.1153		
Mercury	-43975-09-16 17:59 J	-14340186.86	-14340186.75	-14340186.64	0.2666	0.1200		
Venus	-43972-04-09 13:54 J	-14339251.07	-14339250.92	-14339250.76	0.2650	0.0549		
Mercury	-43968-09-09 09:35 J	-14337637.21	-14337637.10	-14337637.00	0.2662	0.1332		

Mercury -43965-03-10 21:35 J -14336723.73 -14336723.60 -14336723.46 0.2668 0.0080

Mercury -43962-09-19 14:09 J -14335435.99 -14335435.91 -14335435.84 0.2668 0.2054

Mercury -43955-09-12 06:14 J -14332886.36 -14332886.24 -14332886.12 0.2663 0.0415

Mercury -43952-03-13 22:04 J -14331972.71 -14331972.58 -14331972.46 0.2667 0.1086

Mercury -43945-03-06 03:35 J -14329423.43 -14329423.35 -14329423.26 0.2672 0.2027

Mercury -43942-09-15 02:52 J -14328135.50 -14328135.38 -14328135.26 0.2665 0.0486

Mercury -43939-03-16 22:47 J -14327221.62 -14327221.55 -14327221.48 0.2665 0.2258

Mercury -43935-09-07 17:45 J -14325585.83 -14325585.76 -14325585.68 0.2660 0.2103

Mercury -43932-03-09 03:21 J -14324672.49 -14324672.36 -14324672.24 0.2670 0.0960

Mercury -43929-09-16 23:02 J -14323384.64 -14323384.54 -14323384.43 0.2667 0.1357

Mercury -43922-09-10 14:38 J -14320835.00 -14320834.89 -14320834.77 0.2662 0.1171

Mercury -43919-03-12 03:21 J -14319921.50 -14319921.36 -14319921.23 0.2668 0.0143

Mercury -43916-09-19 19:11 J -14318633.76 -14318633.70 -14318633.63 0.2668 0.2204

Mercury -43909-09-12 11:30 J -14316084.14 -14316084.02 -14316083.90 0.2663 0.0255

Mercury -43906-03-15 03:50 J -14315170.46 -14315170.34 -14315170.22 0.2666 0.1288

Mercury -43899-03-07 09:06 J -14312621.21 -14312621.12 -14312621.02 0.2671 0.1842

Mercury -43896-09-15 07:54 J -14311333.28 -14311333.17 -14311333.05 0.2665 0.0645

Mercury -43893-03-17 04:33 J -14310419.36 -14310419.31 -14310419.26 0.2665 0.2465

Mercury -43889-09-07 23:02 J -14308783.62 -14308783.54 -14308783.45 0.2661 0.1938

Mercury -43886-03-10 08:52 J -14307870.26 -14307870.13 -14307870.00 0.2670 0.0772

Mercury -43883-09-18 04:18 J -14306582.42 -14306582.32 -14306582.22 0.2667 0.1508

Mercury -43876-09-10 19:54 J -14304032.78 -14304032.67 -14304032.55 0.2662 0.1005

Mercury -43873-03-12 09:06 J -14303119.26 -14303119.12 -14303118.99 0.2668 0.0347

Mercury -43870-09-21 00:28 J -14301831.54 -14301831.48 -14301831.43 0.2668 0.2354

Mercury -43863-09-13 16:47 J -14299281.93 -14299281.80 -14299281.68 0.2664 0.0130

Mercury -43860-03-15 09:35 J -14298368.22 -14298368.10 -14298367.99 0.2666 0.1488

Mercury -43853-03-07 14:52 J -14295818.98 -14295818.88 -14295818.78 0.2671 0.1651

Mercury -43850-09-16 13:11 J -14294531.07 -14294530.95 -14294530.83 0.2665 0.0796

Mercury -43843-09-09 04:18 J -14291981.41 -14291981.32 -14291981.23 0.2661 0.1770

Venus -43843-10-14 09:21 J -14291946.17 -14291946.11 -14291946.05 0.2683 0.2465

Mercury -43840-03-10 14:38 J -14291068.02 -14291067.89 -14291067.76 0.2669 0.0573

Mercury -43837-09-18 09:21 J -14289780.20 -14289780.11 -14289780.01 0.2667 0.1661

Venus -43835-10-12 00:42 J -14289026.61 -14289026.47 -14289026.34 0.2681 0.1317

Mercury -43830-09-12 01:11 J -14287230.57 -14287230.45 -14287230.33 0.2662 0.0843

Mercury -43827-03-13 14:52 J -14286317.02 -14286316.88 -14286316.75 0.2667 0.0545

Mercury -43824-09-21 05:30 J -14285029.31 -14285029.27 -14285029.23 0.2669 0.2502

Mercury -43820-03-05 20:52 J -14283767.67 -14283767.63 -14283767.58 0.2672 0.2512

Mercury -43817-09-13 21:50 J -14282479.71 -14282479.59 -14282479.46 0.2664 0.0104

Mercury -43814-03-16 15:21 J -14281565.97 -14281565.86 -14281565.76 0.2666 0.1692

Mercury -43810-09-07 12:28 J -14279930.01 -14279929.98 -14279929.95 0.2660 0.2553

Mercury -43807-03-08 20:23 J -14279016.76 -14279016.65 -14279016.54 0.2671 0.1467

Mercury -43804-09-16 18:28 J -14277728.85 -14277728.73 -14277728.62 0.2666 0.0955

Mercury -43797-09-09 09:35 J -14275179.20 -14275179.10 -14275179.00 0.2661 0.1605

Mercury -43794-03-11 20:23 J -14274265.79 -14274265.65 -14274265.52 0.2669 0.0383

Mercury -43791-09-19 14:38 J -14272977.98 -14272977.89 -14272977.80 0.2667 0.1813

Mercury -43784-09-12 06:28 J -14270428.35 -14270428.23 -14270428.11 0.2663 0.0677

Mercury -43781-03-13 20:38 J -14269514.77 -14269514.64 -14269514.51 0.2667 0.0745

Mercury -43778-09-22 10:33 J -14268227.07 -14268227.06 -14268227.05 0.2669 0.2649

Mercury -43774-03-07 02:23 J -14266965.46 -14266965.40 -14266965.33 0.2672 0.2334

Mercury -43771-09-15 03:06 J -14265677.49 -14265677.37 -14265677.25 0.2664 0.0224

Mercury -43768-03-16 21:06 J -14264763.72 -14264763.62 -14264763.53 0.2665 0.1895

Mercury -43764-09-07 17:45 J -14263127.81 -14263127.76 -14263127.70 0.2660 0.2381

Mercury -43761-03-09 02:09 J -14262214.53 -14262214.41 -14262214.30 0.2670 0.1277

Mercury -43758-09-17 23:30 J -14260926.63 -14260926.52 -14260926.41 0.2666 0.1106

Mercury -43751-09-10 14:52 J -14258376.98 -14258376.88 -14258376.78 0.2661 0.1438

Mercury -43748-03-12 01:54 J -14257463.55 -14257463.42 -14257463.28 0.2668 0.0196

Mercury -43745-09-19 19:40 J -14256175.76 -14256175.68 -14256175.60 0.2668 0.1964

Mercury -43738-09-13 11:45 J -14253626.13 -14253626.01 -14253625.89 0.2663 0.0520

Mercury -43735-03-15 02:09 J -14252712.53 -14252712.41 -14252712.28 0.2667 0.0941

Venus -43729-04-09 15:21 J -14250495.02 -14250494.86 -14250494.70 0.2651 0.0420

Mercury -43728-03-07 08:09 J -14250163.24 -14250163.16 -14250163.09 0.2672 0.2147

Mercury -43725-09-15 08:23 J -14248875.27 -14248875.15 -14248875.03 0.2665 0.0388

Mercury -43722-03-18 02:52 J -14247961.46 -14247961.38 -14247961.30 0.2665 0.2103

Mercury -43718-09-08 23:02 J -14246325.60 -14246325.54 -14246325.47 0.2660 0.2214

Mercury -43715-03-10 07:40 J -14245412.30 -14245412.18 -14245412.06 0.2670 0.1092

Mercury -43712-09-18 04:47 J -14244124.41 -14244124.30 -14244124.20 0.2666 0.1262

Mercury -43705-09-10 20:09 J -14241574.77 -14241574.66 -14241574.55 0.2662 0.1270

Mercury -43702-03-13 07:40 J -14240661.32 -14240661.18 -14240661.05 0.2668 0.0013

Mercury -43699-09-21 00:57 J -14239373.54 -14239373.46 -14239373.39 0.2668 0.2113

Mercury -43692-09-13 17:02 J -14236823.92 -14236823.79 -14236823.67 0.2663 0.0361

Mercury -43689-03-15 07:54 J -14235910.29 -14235910.17 -14235910.04 0.2666 0.1141

Mercury -43682-03-08 13:40 J -14233361.02 -14233360.93 -14233360.84 0.2671 0.1964

Mercury -43679-09-16 13:26 J -14232073.06 -14232072.94 -14232072.82 0.2665 0.0543

Mercury -43676-03-18 08:38 J -14231159.21 -14231159.14 -14231159.07 0.2665 0.2302

Mercury -43672-09-09 04:18 J -14229523.40 -14229523.32 -14229523.24 0.2660 0.2043

Mercury -43669-03-10 13:26 J -14228610.07 -14228609.94 -14228609.82 0.2670 0.0901

Mercury -43666-09-19 09:50 J -14227322.19 -14227322.09 -14227321.99 0.2667 0.1412

Mercury -43659-09-12 01:26 J -14224772.55 -14224772.44 -14224772.33 0.2662 0.1109

Mercury -43656-03-13 13:26 J -14223859.08 -14223858.94 -14223858.81 0.2668 0.0214

Mercury -43653-09-21 05:59 J -14222571.31 -14222571.25 -14222571.19 0.2668 0.2261

Mercury -43646-09-14 22:18 J -14220021.70 -14220021.57 -14220021.45 0.2664 0.0217

Mercury -43643-03-16 13:40 J -14219108.05 -14219107.93 -14219107.81 0.2666 0.1335

Mercury -43636-03-08 19:11 J -14216558.80 -14216558.70 -14216558.60 0.2671 0.1780

Mercury -43633-09-16 18:42 J -14215270.84 -14215270.72 -14215270.60 0.2665 0.0700

Mercury -43630-03-19 14:23 J -14214356.94 -14214356.90 -14214356.85 0.2665 0.2512

Mercury -43626-09-10 09:35 J -14212721.19 -14212721.10 -14212721.01 0.2661 0.1879

Mercury -43623-03-11 18:57 J -14211807.84 -14211807.71 -14211807.58 0.2669 0.0711

Mercury -43620-09-19 15:06 J -14210519.97 -14210519.87 -14210519.78 0.2667 0.1567

Mercury -43613-09-12 06:42 J -14207970.34 -14207970.22 -14207970.11 0.2662 0.0943

Mercury -43610-03-14 18:57 J -14207056.84 -14207056.71 -14207056.57 0.2668 0.0404

Mercury -43607-09-22 11:02 J -14205769.08 -14205769.04 -14205768.99 0.2668 0.2412

Mercury -43603-03-07 01:26 J -14204507.46 -14204507.44 -14204507.42 0.2673 0.2629

Mercury -43600-09-15 03:21 J -14203219.48 -14203219.36 -14203219.24 0.2664 0.0046

Venus -43600-10-14 10:33 J -14203190.11 -14203190.06 -14203190.02 0.2682 0.2554

Mercury -43597-03-16 19:26 J -14202305.80 -14202305.69 -14202305.58 0.2666 0.1537

Venus -43592-10-12 01:26 J -14200270.58 -14200270.44 -14200270.30 0.2680 0.1277

Mercury -43590-03-10 00:57 J -14199756.57 -14199756.46 -14199756.35 0.2671 0.1590

Mercury -43587-09-17 23:59 J -14198468.62 -14198468.50 -14198468.39 0.2665 0.0858

Mercury -43580-09-10 14:52 J -14195918.97 -14195918.88 -14195918.78 0.2661 0.1709

Mercury -43577-03-12 00:42 J -14195005.61 -14195005.47 -14195005.34 0.2669 0.0520

Mercury -43574-09-20 20:09 J -14193717.75 -14193717.66 -14193717.57 0.2667 0.1721

Mercury -43567-09-13 11:59 J -14191168.12 -14191168.00 -14191167.89 0.2663 0.0787

Mercury -43564-03-15 00:42 J -14190254.60 -14190254.47 -14190254.34 0.2667 0.0590

Mercury -43561-09-22 16:18 J -14188966.85 -14188966.82 -14188966.79 0.2669 0.2559

Mercury -43557-03-07 07:11 J -14187705.26 -14187705.20 -14187705.15 0.2672 0.2447

Mercury -43554-09-16 08:38 J -14186417.26 -14186417.14 -14186417.02 0.2664 0.0129

Mercury -43551-03-18 01:11 J -14185503.55 -14185503.45 -14185503.35 0.2666 0.1739

Mercury -43547-09-08 23:02 J -14183867.58 -14183867.54 -14183867.50 0.2660 0.2494

Mercury -43544-03-10 06:28 J -14182954.34 -14182954.23 -14182954.11 0.2671 0.1405

Mercury -43541-09-18 05:02 J -14181666.40 -14181666.29 -14181666.18 0.2666 0.1011

Mercury -43534-09-11 20:09 J -14179116.76 -14179116.66 -14179116.56 0.2661 0.1545

Mercury -43531-03-13 06:14 J -14178203.37 -14178203.24 -14178203.10 0.2669 0.0331

Mercury -43528-09-21 01:26 J -14176915.53 -14176915.44 -14176915.36 0.2667 0.1871

Mercury -43521-09-13 17:02 J -14174365.91 -14174365.79 -14174365.66 0.2663 0.0624

Mercury -43518-03-16 06:28 J -14173452.36 -14173452.23 -14173452.10 0.2667 0.0792

Mercury -43511-03-08 12:42 J -14170903.04 -14170902.97 -14170902.90 0.2672 0.2263

Mercury -43508-09-16 13:54 J -14169615.05 -14169614.92 -14169614.80 0.2664 0.0302

Mercury -43505-03-18 06:57 J -14168701.30 -14168701.21 -14168701.12 0.2665 0.1937

Mercury -43501-09-09 04:18 J -14167065.38 -14167065.32 -14167065.26 0.2660 0.2323

Mercury -43498-03-11 12:14 J -14166152.11 -14166151.99 -14166151.87 0.2670 0.1215

Mercury -43495-09-19 10:18 J -14164864.18 -14164864.07 -14164863.96 0.2666 0.1167

Mercury -43488-09-12 01:26 J -14162314.54 -14162314.44 -14162314.33 0.2662 0.1378

Venus -43486-04-10 17:02 J -14161738.95 -14161738.79 -14161738.63 0.2652 0.0262

Mercury -43485-03-13 11:59 J -14161401.14 -14161401.00 -14161400.87 0.2668 0.0130

Mercury -43482-09-22 06:28 J -14160113.31 -14160113.23 -14160113.15 0.2668 0.2021

Mercury -43475-09-14 22:18 J -14157563.69 -14157563.57 -14157563.45 0.2663 0.0461

Mercury -43472-03-16 12:14 J -14156650.12 -14156649.99 -14156649.87 0.2667 0.0988

Mercury -43465-03-08 18:14 J -14154100.82 -14154100.74 -14154100.66 0.2672 0.2083

Mercury -43462-09-17 18:57 J -14152812.83 -14152812.71 -14152812.59 0.2665 0.0449

Mercury -43459-03-19 12:42 J -14151899.05 -14151898.97 -14151898.89 0.2665 0.2145

Mercury -43455-09-10 09:35 J -14150263.17 -14150263.10 -14150263.03 0.2660 0.2155

Mercury -43452-03-11 17:45 J -14149349.88 -14149349.76 -14149349.64 0.2670 0.1028

Mercury -43449-09-19 15:21 J -14148061.96 -14148061.86 -14148061.75 0.2666 0.1320

Mercury -43442-09-13 06:42 J -14145512.33 -14145512.22 -14145512.11 0.2662 0.1213

Mercury -43439-03-14 17:45 J -14144598.90 -14144598.76 -14144598.63 0.2668 0.0087

Mercury -43436-09-22 11:30 J -14143311.08 -14143311.02 -14143310.95 0.2668 0.2174

Mercury -43429-09-15 03:35 J -14140761.47 -14140761.35 -14140761.23 0.2663 0.0294

Mercury -43426-03-17 17:59 J -14139847.88 -14139847.75 -14139847.63 0.2666 0.1191

Mercury -43419-03-09 23:45 J -14137298.60 -14137298.51 -14137298.42 0.2671 0.1899

Mercury -43416-09-18 00:14 J -14136010.61 -14136010.49 -14136010.37 0.2665 0.0599

Mercury -43413-03-19 18:28 J -14135096.79 -14135096.73 -14135096.67 0.2665 0.2346

Mercury -43409-09-10 14:52 J -14133460.96 -14133460.88 -14133460.79 0.2661 0.1986

Mercury -43406-03-12 23:30 J -14132547.65 -14132547.52 -14132547.40 0.2670 0.0843

Mercury -43403-09-20 20:38 J -14131259.74 -14131259.64 -14131259.54 0.2667 0.1473

Mercury -43396-09-13 11:59 J -14128710.11 -14128710.00 -14128709.89 0.2662 0.1048

Mercury -43393-03-14 23:16 J -14127796.66 -14127796.53 -14127796.39 0.2668 0.0254

Mercury -43390-09-23 16:47 J -14126508.86 -14126508.80 -14126508.74 0.2668 0.2320

Mercury -43383-09-16 08:52 J -14123959.26 -14123959.13 -14123959.01 0.2664 0.0145

Mercury -43380-03-17 23:30 J -14123045.63 -14123045.52 -14123045.40 0.2666 0.1389

Mercury -43373-03-10 05:16 J -14120496.38 -14120496.28 -14120496.18 0.2671 0.1717

Mercury -43370-09-19 05:30 J -14119208.39 -14119208.27 -14119208.16 0.2665 0.0765

Mercury -43367-03-21 00:14 J -14118294.52 -14118294.49 -14118294.45 0.2665 0.2556

Mercury -43363-09-11 20:23 J -14116658.74 -14116658.65 -14116658.56 0.2661 0.1819

Mercury -43360-03-13 05:02 J -14115745.42 -14115745.29 -14115745.16 0.2669 0.0654

Mercury -43357-09-21 01:40 J -14114457.52 -14114457.43 -14114457.33 0.2667 0.1624

Venus -43357-10-14 11:16 J -14114434.06 -14114434.03 -14114433.99 0.2681 0.2620

Mercury -43350-09-14 17:16 J -14111907.90 -14111907.78 -14111907.66 0.2662 0.0883

Venus -43349-10-12 02:23 J -14111514.54 -14111514.40 -14111514.26 0.2680 0.1188

Mercury -43347-03-16 05:02 J -14110994.42 -14110994.29 -14110994.16 0.2668 0.0451

Mercury -43344-09-23 21:50 J -14109706.63 -14109706.59 -14109706.54 0.2669 0.2469

Mercury -43340-03-08 11:30 J -14108445.05 -14108445.02 -14108444.98 0.2673 0.2563

Mercury -43337-09-16 14:09 J -14107157.04 -14107156.91 -14107156.79 0.2664 0.0094

Mercury -43334-03-19 05:16 J -14106243.39 -14106243.28 -14106243.17 0.2666 0.1586

Mercury -43330-09-10 04:18 J -14104607.34 -14104607.32 -14104607.30 0.2660 0.2603

Mercury -43327-03-11 11:02 J -14103694.15 -14103694.04 -14103693.93 0.2671 0.1531

Mercury -43324-09-19 10:33 J -14102406.17 -14102406.06 -14102405.94 0.2666 0.0912

Mercury -43317-09-12 01:26 J -14099856.53 -14099856.44 -14099856.34 0.2661 0.1651

Mercury -43314-03-14 10:33 J -14098943.19 -14098943.06 -14098942.92 0.2669 0.0467

Mercury -43311-09-22 06:57 J -14097655.30 -14097655.21 -14097655.12 0.2667 0.1777

Mercury -43304-09-14 22:33 J -14095105.68 -14095105.56 -14095105.44 0.2663 0.0721

Mercury -43301-03-16 10:33 J -14094192.19 -14094192.06 -14094191.92 0.2667 0.0647

Mercury -43298-09-25 03:06 J -14092904.39 -14092904.37 -14092904.35 0.2669 0.2617

Mercury -43294-03-09 17:16 J -14091642.84 -14091642.78 -14091642.72 0.2672 0.2382

Mercury -43291-09-17 19:11 J -14090354.82 -14090354.70 -14090354.57 0.2664 0.0209

Mercury -43288-03-19 11:02 J -14089441.14 -14089441.04 -14089440.94 0.2666 0.1785

Mercury -43284-09-10 09:35 J -14087805.15 -14087805.10 -14087805.05 0.2660 0.2433

Mercury -43281-03-11 16:33 J -14086891.92 -14086891.81 -14086891.70 0.2671 0.1344

Mercury -43278-09-20 15:50 J -14085603.95 -14085603.84 -14085603.73 0.2666 0.1070

Mercury -43271-09-13 06:42 J -14083054.32 -14083054.22 -14083054.11 0.2661 0.1489

Mercury -43268-03-14 16:18 J -14082140.95 -14082140.82 -14082140.69 0.2669 0.0271

Mercury -43265-09-22 11:59 J -14080853.08 -14080853.00 -14080852.91 0.2667 0.1928

Mercury -43258-09-16 03:50 J -14078303.46 -14078303.34 -14078303.22 0.2663 0.0559

Mercury -43255-03-17 16:18 J -14077389.95 -14077389.82 -14077389.69 0.2667 0.0843

Mercury -43248-03-09 22:47 J -14074840.62 -14074840.55 -14074840.48 0.2672 0.2198

Mercury -43245-09-18 00:28 J -14073552.60 -14073552.48 -14073552.36 0.2664 0.0344

Venus -43243-04-10 18:42 J -14072982.88 -14072982.72 -14072982.56 0.2652 0.0128

Mercury -43242-03-20 16:47 J -14072638.89 -14072638.80 -14072638.71 0.2665 0.1985

Mercury -43238-09-11 14:52 J -14071002.94 -14071002.88 -14071002.81 0.2660 0.2265

Mercury -43235-03-12 22:18 J -14070089.69 -14070089.57 -14070089.45 0.2670 0.1157

Mercury -43232-09-20 21:06 J -14068801.73 -14068801.62 -14068801.52 0.2666 0.1228

Mercury -43225-09-13 11:59 J -14066252.10 -14066252.00 -14066251.89 0.2661 0.1321

Mercury -43222-03-15 22:04 J -14065338.72 -14065338.58 -14065338.45 0.2668 0.0122

Mercury -43219-09-23 17:16 J -14064050.85 -14064050.78 -14064050.71 0.2668 0.2081

Mercury -43212-09-16 09:06 J -14061501.25 -14061501.12 -14061501.00 0.2663 0.0409

Mercury -43209-03-17 22:04 J -14060587.71 -14060587.58 -14060587.45 0.2667 0.1036

Mercury -43202-03-11 04:18 J -14058038.40 -14058038.32 -14058038.23 0.2672 0.2018

Mercury -43199-09-19 05:45 J -14056750.38 -14056750.26 -14056750.14 0.2665 0.0505

Mercury -43196-03-20 22:33 J -14055836.63 -14055836.56 -14055836.48 0.2665 0.2189

Mercury -43192-09-11 20:09 J -14054200.73 -14054200.66 -14054200.58 0.2660 0.2096

Mercury -43189-03-13 03:50 J -14053287.47 -14053287.34 -14053287.22 0.2670 0.0970

Mercury -43186-09-22 02:09 J -14051999.51 -14051999.41 -14051999.31 0.2666 0.1378

Mercury -43179-09-14 17:16 J -14049449.89 -14049449.78 -14049449.66 0.2662 0.1157

Mercury -43176-03-16 03:35 J -14048536.48 -14048536.35 -14048536.21 0.2668 0.0132

Mercury -43173-09-23 22:18 J -14047248.63 -14047248.57 -14047248.50 0.2668 0.2229

Mercury -43166-09-17 14:09 J -14044699.03 -14044698.91 -14044698.78 0.2663 0.0250

Mercury -43163-03-19 03:50 J -14043785.46 -14043785.34 -14043785.22 0.2666 0.1238

Mercury -43156-03-11 09:50 J -14041236.18 -14041236.09 -14041235.99 0.2671 0.1836

Mercury -43153-09-19 10:47 J -14039948.16 -14039948.05 -14039947.93 0.2665 0.0664

Mercury -43150-03-22 04:18 J -14039034.38 -14039034.32 -14039034.26 0.2665 0.2389

Mercury -43146-09-13 01:26 J -14037398.52 -14037398.44 -14037398.35 0.2661 0.1929

Mercury -43143-03-14 09:21 J -14036485.23 -14036485.11 -14036484.98 0.2669 0.0785

Mercury -43140-09-22 07:26 J -14035197.29 -14035197.19 -14035197.10 0.2667 0.1534

Mercury -43133-09-14 22:33 J -14032647.67 -14032647.56 -14032647.44 0.2662 0.0991

Mercury -43130-03-17 09:21 J -14031734.25 -14031734.11 -14031733.98 0.2668 0.0311

Mercury -43127-09-25 03:35 J -14030446.40 -14030446.35 -14030446.30 0.2668 0.2380

Mercury -43120-09-17 19:26 J -14027896.81 -14027896.69 -14027896.56 0.2664 0.0095

Mercury -43117-03-19 09:35 J -14026983.22 -14026983.10 -14026982.99 0.2666 0.1434

Mercury -43110-03-12 15:21 J -14024433.96 -14024433.86 -14024433.75 0.2671 0.1657

Mercury -43107-09-20 16:04 J -14023145.94 -14023145.83 -14023145.71 0.2665 0.0818

Venus -43106-10-13 02:52 J -14022758.52 -14022758.38 -14022758.24 0.2679 0.1152

Mercury -43104-03-22 10:04 J -14022232.10 -14022232.08 -14022232.05 0.2665 0.2601

Mercury -43100-09-13 06:57 J -14020596.31 -14020596.21 -14020596.12 0.2661 0.1761

Mercury -43097-03-14 15:06 J -14019683.00 -14019682.87 -14019682.74 0.2669 0.0592

Mercury -43094-09-23 12:28 J -14018395.07 -14018394.98 -14018394.89 0.2667 0.1682

Mercury -43087-09-16 03:50 J -14015845.46 -14015845.34 -14015845.22 0.2662 0.0827

Mercury -43084-03-17 15:06 J -14014932.01 -14014931.87 -14014931.74 0.2667 0.0509

Mercury -43081-09-25 08:38 J -14013644.17 -14013644.14 -14013644.10 0.2669 0.2527

Mercury -43077-03-09 21:50 J -14012382.64 -14012382.59 -14012382.55 0.2672 0.2498

Mercury -43074-09-19 00:42 J -14011094.59 -14011094.47 -14011094.35 0.2664 0.0086

Mercury -43071-03-20 15:21 J -14010180.97 -14010180.86 -14010180.76 0.2666 0.1637

Mercury -43067-09-11 14:52 J -14008544.91 -14008544.88 -14008544.85 0.2660 0.2544

Mercury -43064-03-12 21:06 J -14007631.73 -14007631.62 -14007631.51 0.2671 0.1469

Mercury -43061-09-20 21:21 J -14006343.73 -14006343.61 -14006343.50 0.2666 0.0971

Mercury -43054-09-14 12:14 J -14003794.09 -14003793.99 -14003793.89 0.2661 0.1593

Mercury -43051-03-15 20:38 J -14002880.77 -14002880.64 -14002880.50 0.2669 0.0410

Mercury -43048-09-23 17:45 J -14001592.85 -14001592.76 -14001592.68 0.2667 0.1838

Mercury -43041-09-16 09:06 J -13999043.24 -13999043.12 -13999043.00 0.2663 0.0663

Mercury -43038-03-18 20:38 J -13998129.77 -13998129.64 -13998129.51 0.2667 0.0697

Mercury -43031-03-11 03:21 J -13995580.42 -13995580.36 -13995580.30 0.2672 0.2319

Mercury -43028-09-19 05:59 J -13994292.37 -13994292.25 -13994292.13 0.2664 0.0246

Mercury -43025-03-20 21:06 J -13993378.72 -13993378.62 -13993378.53 0.2666 0.1836

Mercury -43021-09-11 20:09 J -13991742.71 -13991742.66 -13991742.60 0.2660 0.2374

Mercury -43018-03-14 02:38 J -13990829.51 -13990829.39 -13990829.27 0.2670 0.1286

Mercury -43015-09-22 02:23 J -13989541.51 -13989541.40 -13989541.29 0.2666 0.1131

Mercury -43008-09-14 17:30 J -13986991.88 -13986991.77 -13986991.67 0.2661 0.1425

Mercury -43005-03-16 02:23 J -13986078.54 -13986078.40 -13986078.27 0.2669 0.0219

Mercury -43002-09-24 22:47 J -13984790.63 -13984790.55 -13984790.47 0.2668 0.1984

43RD MILLENNIUM BCE

This is a list of transits visible from Earth in the 43rd millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	-43000-04-10 20:38 J	-13984226.80	-13984226.64	-13984226.48	0.2653	0.0044		
Mercury	-42995-09-17 14:23 J	-13982241.02	-13982240.90	-13982240.78	0.2663	0.0499		
Mercury	-42992-03-19 02:23 J	-13981327.53	-13981327.40	-13981327.27	0.2667	0.0893		
Mercury	-42985-03-11 08:52 J	-13978778.21	-13978778.13	-13978778.05	0.2672	0.2135		
Mercury	-42982-09-20 11:16 J	-13977490.16	-13977490.03	-13977489.91	0.2665	0.0414		
Mercury	-42979-03-22 02:38 J	-13976576.47	-13976576.39	-13976576.30	0.2665	0.2035		
Mercury	-42975-09-13 01:26 J	-13974940.51	-13974940.44	-13974940.37	0.2660	0.2206		
Mercury	-42972-03-14 08:09 J	-13974027.28	-13974027.16	-13974027.03	0.2670	0.1103		
Mercury	-42969-09-22 07:40 J	-13972739.29	-13972739.18	-13972739.07	0.2666	0.1281		
Mercury	-42962-09-15 22:47 J	-13970189.66	-13970189.55	-13970189.44	0.2662	0.1262		
Mercury	-42959-03-17 07:54 J	-13969276.30	-13969276.17	-13969276.03	0.2668	0.0045		
Mercury	-42956-09-25 04:04 J	-13967988.40	-13967988.33	-13967988.26	0.2668	0.2140		

Mercury -42949-09-17 19:40 J -13965438.80 -13965438.68 -13965438.56 0.2663 0.0337

Mercury -42946-03-20 07:54 J -13964525.29 -13964525.17 -13964525.04 0.2667 0.1090

Mercury -42939-03-12 14:23 J -13961975.99 -13961975.90 -13961975.81 0.2672 0.1958

Mercury -42936-09-20 16:18 J -13960687.94 -13960687.82 -13960687.70 0.2665 0.0568

Mercury -42933-03-22 08:38 J -13959774.22 -13959774.14 -13959774.07 0.2665 0.2237

Mercury -42929-09-13 06:42 J -13958138.30 -13958138.22 -13958138.14 0.2660 0.2038

Mercury -42926-03-15 13:54 J -13957225.05 -13957224.92 -13957224.80 0.2670 0.0909

Mercury -42923-09-23 12:57 J -13955937.06 -13955936.96 -13955936.86 0.2666 0.1439

Mercury -42916-09-16 04:04 J -13953387.45 -13953387.33 -13953387.22 0.2662 0.1096

Mercury -42913-03-17 13:40 J -13952474.07 -13952473.93 -13952473.80 0.2668 0.0170

Mercury -42910-09-26 09:06 J -13951186.18 -13951186.12 -13951186.06 0.2668 0.2287

Mercury -42903-09-19 00:57 J -13948636.59 -13948636.46 -13948636.34 0.2663 0.0181

Mercury -42900-03-20 13:40 J -13947723.05 -13947722.93 -13947722.81 0.2666 0.1287

Mercury -42893-03-12 20:09 J -13945173.76 -13945173.66 -13945173.57 0.2671 0.1771

Mercury -42890-09-21 21:35 J -13943885.72 -13943885.60 -13943885.48 0.2665 0.0718

Mercury -42887-03-23 14:09 J -13942971.96 -13942971.91 -13942971.85 0.2665 0.2436

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Mercury -42864-09-26 14:23 J -13934383.95 -13934383.90 -13934383.86 0.2668 0.2440

Venus -42863-10-13 03:35 J -13934002.50 -13934002.35 -13934002.21 0.2678 0.1092

Mercury -42860-03-11 02:23 J -13933122.42 -13933122.40 -13933122.37 0.2673 0.2609

Mercury -42857-09-19 06:14 J -13931834.37 -13931834.24 -13931834.12 0.2664 0.0078

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Mercury -42847-03-14 01:40 J -13928371.54 -13928371.43 -13928371.33 0.2671 0.1592

Mercury -42844-09-22 02:52 J -13927083.50 -13927083.38 -13927083.27 0.2665 0.0880

Mercury -42841-03-23 20:09 J -13926169.68 -13926169.66 -13926169.65 0.2664 0.2641

Mercury -42837-09-14 17:30 J -13924533.87 -13924533.77 -13924533.68 0.2661 0.1700

Mercury -42834-03-17 01:11 J -13923620.58 -13923620.45 -13923620.32 0.2669 0.0535

Mercury -42831-09-24 23:16 J -13922332.62 -13922332.53 -13922332.44 0.2667 0.1744

Mercury -42824-09-17 14:38 J -13919783.01 -13919782.89 -13919782.78 0.2663 0.0771

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Mercury -42814-03-12 07:54 J -13916320.22 -13916320.17 -13916320.12 0.2672 0.2431

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Mercury -42798-09-23 07:54 J -13910281.28 -13910281.17 -13910281.05 0.2666 0.1031

Mercury -42791-09-15 22:47 J -13907731.65 -13907731.55 -13907731.45 0.2661 0.1535

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Mercury -42778-09-18 19:40 J -13902980.80 -13902980.68 -13902980.55 0.2663 0.0611

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Venus -42757-04-10 22:47 J -13895470.71 -13895470.55 -13895470.39 0.2654 0.0231

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Mercury -42624-03-25 00:14 J -13846909.54 -13846909.49 -13846909.45 0.2665 0.2483

Mercury -42620-09-15 22:47 J -13845273.64 -13845273.55 -13845273.46 0.2661 0.1812

Venus -42620-10-13 04:04 J -13845246.48 -13845246.33 -13845246.19 0.2678 0.1041

Mercury -42617-03-17 05:30 J -13844360.40 -13844360.27 -13844360.14 0.2669 0.0668

Mercury -42614-09-26 04:47 J -13843072.39 -13843072.30 -13843072.21 0.2667 0.1649

Mercury -42607-09-18 19:54 J -13840522.79 -13840522.67 -13840522.55 0.2662 0.0871

Mercury -42604-03-20 05:16 J -13839609.41 -13839609.28 -13839609.14 0.2668 0.0417

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Mercury -42584-03-15 11:45 J -13832309.12 -13832309.01 -13832308.90 0.2671 0.1528

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Mercury -42571-03-18 11:16 J -13827558.16 -13827558.03 -13827557.90 0.2669 0.0472

Mercury -42568-09-26 09:50 J -13826270.17 -13826270.09 -13826270.00 0.2667 0.1807

Mercury -42561-09-19 01:11 J -13823720.57 -13823720.45 -13823720.33 0.2663 0.0707

Mercury -42558-03-21 11:02 J -13822807.17 -13822807.04 -13822806.91 0.2667 0.0612

Mercury -42555-09-29 06:14 J -13821519.25 -13821519.24 -13821519.23 0.2669 0.2644

Mercury -42551-03-13 18:14 J -13820257.80 -13820257.74 -13820257.68 0.2672 0.2366

Mercury -42548-09-21 22:04 J -13818969.70 -13818969.58 -13818969.46 0.2664 0.0208

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Mercury -42541-09-14 11:59 J -13816420.05 -13816420.00 -13816419.95 0.2660 0.2428

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Mercury -42515-09-20 06:28 J -13806918.35 -13806918.23 -13806918.11 0.2663 0.0546

Venus -42514-04-12 00:57 J -13806714.62 -13806714.46 -13806714.30 0.2654 0.0407

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Mercury -42489-09-24 23:59 J -13797416.61 -13797416.50 -13797416.40 0.2666 0.1251

Mercury -42482-09-18 14:38 J -13794867.00 -13794866.89 -13794866.78 0.2662 0.1305

Mercury -42479-03-19 22:33 J -13793953.70 -13793953.56 -13793953.43 0.2669 0.0106

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Mercury -42469-09-20 11:45 J -13790116.14 -13790116.01 -13790115.89 0.2663 0.0385

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Mercury -42459-03-15 05:16 J -13786653.37 -13786653.28 -13786653.20 0.2672 0.2007

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Mercury -42453-03-24 22:33 J -13784451.64 -13784451.56 -13784451.48 0.2665 0.2133

Mercury -42449-09-15 22:33 J -13782815.63 -13782815.56 -13782815.48 0.2660 0.2088

Mercury -42446-03-18 04:33 J -13781902.43 -13781902.31 -13781902.19 0.2670 0.0975

Mercury -42443-09-26 05:02 J -13780614.39 -13780614.29 -13780614.18 0.2666 0.1401

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Mercury -42403-09-17 03:50 J -13766013.42 -13766013.34 -13766013.25 0.2661 0.1922

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Mercury -42377-09-21 22:18 J -13756511.70 -13756511.57 -13756511.45 0.2664 0.0104

Venus -42377-10-13 04:18 J -13756490.47 -13756490.32 -13756490.17 0.2677 0.1000

Mercury -42374-03-24 09:50 J -13755598.21 -13755598.09 -13755597.98 0.2666 0.1390

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Mercury -42341-03-21 15:21 J -13743546.99 -13743546.86 -13743546.73 0.2668 0.0471

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Venus -42271-04-12 03:21 J -13717958.52 -13717958.36 -13717958.21 0.2655 0.0607

Mercury -42265-09-18 19:54 J -13715606.78 -13715606.67 -13715606.57 0.2661 0.1417

Mercury -42262-03-21 02:52 J -13714693.51 -13714693.38 -13714693.24 0.2669 0.0237

Mercury -42259-09-29 01:54 J -13713405.50 -13713405.42 -13713405.34 0.2668 0.2016

Mercury -42252-09-21 17:02 J -13710855.91 -13710855.79 -13710855.67 0.2663 0.0483

Mercury -42249-03-23 02:38 J -13709942.51 -13709942.39 -13709942.26 0.2667 0.0859

Mercury -42242-03-16 09:50 J -13707393.17 -13707393.09 -13707393.01 0.2672 0.2122

Mercury -42239-09-24 13:54 J -13706105.04 -13706104.92 -13706104.80 0.2664 0.0427

Mercury -42236-03-26 02:52 J -13705191.47 -13705191.38 -13705191.29 0.2665 0.1983

Mercury -42232-09-17 03:50 J -13703555.41 -13703555.34 -13703555.27 0.2660 0.2203

Mercury -42229-03-18 09:06 J -13702642.24 -13702642.12 -13702642.00 0.2670 0.1099

Mercury -42226-09-27 10:33 J -13701354.16 -13701354.06 -13701353.95 0.2666 0.1309

Mercury -42219-09-20 01:11 J -13698804.56 -13698804.45 -13698804.34 0.2662 0.1247

Mercury -42216-03-21 08:38 J -13697891.28 -13697891.14 -13697891.01 0.2668 0.0042

Mercury -42213-09-29 06:57 J -13696603.28 -13696603.21 -13696603.14 0.2668 0.2169

Mercury -42206-09-22 22:18 J -13694053.69 -13694053.57 -13694053.45 0.2663 0.0321

Mercury -42203-03-24 08:23 J -13693140.27 -13693140.15 -13693140.02 0.2667 0.1056

Mercury -42196-03-16 15:21 J -13690590.94 -13690590.86 -13690590.77 0.2672 0.1944

Mercury -42193-09-24 19:11 J -13689302.82 -13689302.70 -13689302.58 0.2665 0.0583

Mercury -42190-03-27 08:38 J -13688389.22 -13688389.14 -13688389.06 0.2665 0.2180

Mercury -42186-09-18 09:06 J -13686753.20 -13686753.12 -13686753.04 0.2660 0.2030

Mercury -42183-03-19 14:38 J -13685840.01 -13685839.89 -13685839.76 0.2670 0.0913

Mercury -42180-09-27 15:50 J -13684551.94 -13684551.84 -13684551.74 0.2666 0.1464

Mercury -42173-09-20 06:28 J -13682002.34 -13682002.23 -13682002.12 0.2662 0.1084

Mercury -42170-03-22 14:09 J -13681089.04 -13681088.91 -13681088.77 0.2668 0.0150

Mercury -42167-09-30 12:14 J -13679801.05 -13679800.99 -13679800.93 0.2668 0.2319

Mercury -42160-09-23 03:35 J -13677251.48 -13677251.35 -13677251.23 0.2664 0.0161

Mercury -42157-03-24 14:09 J -13676338.03 -13676337.91 -13676337.79 0.2667 0.1251

Mercury -42150-03-17 20:52 J -13673788.72 -13673788.63 -13673788.53 0.2671 0.1767

Mercury -42147-09-26 00:28 J -13672500.60 -13672500.48 -13672500.36 0.2665 0.0744

Mercury -42144-03-27 14:23 J -13671586.96 -13671586.90 -13671586.84 0.2665 0.2383

Mercury -42140-09-18 14:38 J -13669950.98 -13669950.89 -13669950.80 0.2661 0.1861

Mercury -42137-03-19 20:09 J -13669037.79 -13669037.66 -13669037.53 0.2670 0.0734

Mercury -42134-09-28 20:52 J -13667749.72 -13667749.63 -13667749.53 0.2667 0.1620

Venus -42134-10-14 04:33 J -13667734.45 -13667734.31 -13667734.16 0.2676 0.0961

Mercury -42127-09-21 11:45 J -13665200.12 -13665200.01 -13665199.89 0.2662 0.0917

Mercury -42124-03-22 19:54 J -13664286.81 -13664286.67 -13664286.54 0.2668 0.0345

Mercury -42121-09-30 17:16 J -13662998.82 -13662998.78 -13662998.73 0.2668 0.2469

Mercury -42117-03-15 03:35 J -13661737.38 -13661737.35 -13661737.32 0.2673 0.2588

Mercury -42114-09-24 08:52 J -13660449.26 -13660449.13 -13660449.01 0.2664 0.0049

Mercury -42111-03-25 19:54 J -13659535.79 -13659535.67 -13659535.56 0.2666 0.1445

Mercury -42107-09-16 22:18 J -13657899.57 -13657899.57 -13657899.57 0.2659 0.2655

Mercury -42104-03-18 02:38 J -13656986.50 -13656986.39 -13656986.29 0.2671 0.1587

Mercury -42101-09-26 05:30 J -13655698.38 -13655698.27 -13655698.15 0.2665 0.0902

Mercury -42098-03-28 20:09 J -13654784.69 -13654784.66 -13654784.63 0.2665 0.2582

Mercury -42094-09-19 19:54 J -13653148.77 -13653148.67 -13653148.58 0.2661 0.1692

Mercury -42091-03-21 01:54 J -13652235.55 -13652235.42 -13652235.29 0.2669 0.0550

Mercury -42088-09-29 02:09 J -13650947.50 -13650947.41 -13650947.32 0.2667 0.1770

Mercury -42081-09-21 17:02 J -13648397.91 -13648397.79 -13648397.67 0.2662 0.0755

Mercury -42078-03-24 01:26 J -13647484.57 -13647484.44 -13647484.31 0.2668 0.0527

Mercury -42075-10-01 22:33 J -13646196.58 -13646196.56 -13646196.54 0.2669 0.2618

Mercury -42071-03-16 09:06 J -13644935.18 -13644935.12 -13644935.07 0.2672 0.2413

Mercury -42068-09-24 14:09 J -13643647.04 -13643646.91 -13643646.79 0.2664 0.0171

Mercury -42065-03-26 01:26 J -13642733.54 -13642733.44 -13642733.33 0.2666 0.1641

Mercury -42061-09-17 03:35 J -13641097.39 -13641097.35 -13641097.30 0.2660 0.2486

Mercury -42058-03-19 08:09 J -13640184.28 -13640184.16 -13640184.05 0.2671 0.1408

Mercury -42055-09-27 10:47 J -13638896.16 -13638896.05 -13638895.93 0.2666 0.1058

Mercury -42048-09-20 01:11 J -13636346.55 -13636346.45 -13636346.35 0.2661 0.1524

Mercury -42045-03-21 07:26 J -13635433.32 -13635433.19 -13635433.06 0.2669 0.0358

Mercury -42042-09-30 07:26 J -13634145.28 -13634145.19 -13634145.11 0.2667 0.1925

Mercury -42035-09-22 22:18 J -13631595.69 -13631595.57 -13631595.45 0.2663 0.0588

Mercury -42032-03-24 07:11 J -13630682.33 -13630682.20 -13630682.07 0.2667 0.0723

Venus -42028-04-12 05:45 J -13629202.41 -13629202.26 -13629202.11 0.2656 0.0814

Mercury -42025-03-16 14:38 J -13628132.96 -13628132.89 -13628132.82 0.2672 0.2235

Mercury -42022-09-25 19:26 J -13626844.82 -13626844.69 -13626844.57 0.2664 0.0334

Mercury -42019-03-27 07:11 J -13625931.30 -13625931.20 -13625931.10 0.2666 0.1833

Mercury -42015-09-18 09:06 J -13624295.18 -13624295.12 -13624295.06 0.2660 0.2312

Mercury -42012-03-19 13:40 J -13623382.05 -13623381.93 -13623381.81 0.2670 0.1219

Mercury -42009-09-27 16:04 J -13622093.94 -13622093.83 -13622093.72 0.2666 0.1215

Mercury -42002-09-21 06:28 J -13619544.34 -13619544.23 -13619544.12 0.2661 0.1357

42ND MILLENNIUM BCE

This is a list of transits visible from Earth in the 42nd millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-41999-03-22 12:57 J	-13618631.09	-13618630.96	-13618630.82	0.2669	0.0180		
Mercury	-41996-09-30 12:28 J	-13617343.05	-13617342.98	-13617342.90	0.2668	0.2079		
Mercury	-41989-09-23 03:35 J	-13614793.47	-13614793.35	-13614793.22	0.2663	0.0426		
Mercury	-41986-03-25 12:42 J	-13613880.09	-13613879.97	-13613879.84	0.2667	0.0914		
Mercury	-41979-03-17 20:09 J	-13611330.74	-13611330.66	-13611330.58	0.2672	0.2056		
Mercury	-41976-09-26 00:42 J	-13610042.60	-13610042.47	-13610042.35	0.2665	0.0496		
Mercury	-41973-03-27 12:57 J	-13609129.05	-13609128.96	-13609128.88	0.2665	0.2034		
Mercury	-41969-09-18 14:23 J	-13607492.97	-13607492.90	-13607492.83	0.2660	0.2144		
Mercury	-41966-03-20 19:11 J	-13606579.82	-13606579.70	-13606579.58	0.2670	0.1039		
Mercury	-41963-09-28 21:21 J	-13605291.72	-13605291.61	-13605291.51	0.2666	0.1369		
Mercury	-41956-09-21 11:45 J	-13602742.12	-13602742.01	-13602741.90	0.2662	0.1189		
Mercury	-41953-03-22 18:42 J	-13601828.85	-13601828.72	-13601828.59	0.2669	0.0027		
Mercury	-41950-10-01 17:45 J	-13600540.82	-13600540.76	-13600540.70	0.2668	0.2228		
Mercury	-41943-09-24 08:52 J	-13597991.25	-13597991.13	-13597991.00	0.2663	0.0264		

Mercury -41940-03-25 18:28 J -13597077.85 -13597077.73 -13597077.61 0.2667 0.1107

Mercury -41933-03-18 01:40 J -13594528.52 -13594528.43 -13594528.34 0.2672 0.1879

Mercury -41930-09-27 05:45 J -13593240.38 -13593240.26 -13593240.14 0.2665 0.0645

Mercury -41927-03-28 18:28 J -13592326.80 -13592326.73 -13592326.65 0.2665 0.2227

Mercury -41923-09-19 19:40 J -13590690.76 -13590690.68 -13590690.60 0.2660 0.1973

Mercury -41920-03-21 00:42 J -13589777.59 -13589777.47 -13589777.34 0.2670 0.0855

Mercury -41917-09-29 02:23 J -13588489.50 -13588489.40 -13588489.30 0.2666 0.1526

Mercury -41910-09-22 17:02 J -13585939.90 -13585939.79 -13585939.67 0.2662 0.1027

Mercury -41907-03-24 00:14 J -13585026.62 -13585026.49 -13585026.35 0.2668 0.0213

Mercury -41904-10-01 22:47 J -13583738.60 -13583738.55 -13583738.49 0.2668 0.2381

Mercury -41897-09-24 14:09 J -13581189.03 -13581188.91 -13581188.78 0.2664 0.0110

Mercury -41894-03-27 00:14 J -13580275.61 -13580275.49 -13580275.38 0.2667 0.1303

Venus -41891-10-14 04:47 J -13578978.45 -13578978.30 -13578978.15 0.2675 0.0929

Mercury -41887-03-19 07:11 J -13577726.30 -13577726.20 -13577726.10 0.2671 0.1702

Mercury -41884-09-27 11:02 J -13576438.16 -13576438.04 -13576437.92 0.2665 0.0803

Mercury -41881-03-29 00:14 J -13575524.54 -13575524.49 -13575524.43 0.2665 0.2431

Mercury -41877-09-20 00:57 J -13573888.55 -13573888.46 -13573888.36 0.2661 0.1807

Mercury -41874-03-22 06:28 J -13572975.36 -13572975.23 -13572975.10 0.2670 0.0671

Mercury -41871-09-30 07:40 J -13571687.27 -13571687.18 -13571687.09 0.2667 0.1677

Mercury -41864-09-22 22:18 J -13569137.69 -13569137.57 -13569137.45 0.2662 0.0858

Mercury -41861-03-24 05:59 J -13568224.38 -13568224.25 -13568224.12 0.2668 0.0400

Mercury -41858-10-03 04:04 J -13566936.37 -13566936.33 -13566936.29 0.2668 0.2529

Mercury -41854-03-17 13:40 J -13565674.97 -13565674.93 -13565674.89 0.2673 0.2524

Mercury -41851-09-25 19:26 J -13564386.81 -13564386.69 -13564386.57 0.2664 0.0062

Mercury -41848-03-27 05:45 J -13563473.37 -13563473.26 -13563473.15 0.2666 0.1497

Mercury -41844-09-18 08:52 J -13561837.15 -13561837.13 -13561837.11 0.2659 0.2600

Mercury -41841-03-19 12:42 J -13560924.08 -13560923.97 -13560923.86 0.2671 0.1521

Mercury -41838-09-28 16:18 J -13559635.94 -13559635.82 -13559635.71 0.2665 0.0959

Mercury -41835-03-30 05:59 J -13558722.27 -13558722.25 -13558722.23 0.2665 0.2627

Mercury -41831-09-21 06:28 J -13557086.33 -13557086.23 -13557086.14 0.2661 0.1635

Mercury -41828-03-22 11:59 J -13556173.13 -13556173.00 -13556172.87 0.2669 0.0485

Mercury -41825-09-30 12:57 J -13554885.05 -13554884.96 -13554884.88 0.2667 0.1833

Mercury -41818-09-24 03:35 J -13552335.47 -13552335.35 -13552335.23 0.2663 0.0697

Mercury -41815-03-25 11:30 J -13551422.15 -13551422.02 -13551421.89 0.2668 0.0586

Mercury -41808-03-17 19:11 J -13548872.76 -13548872.70 -13548872.64 0.2672 0.2349

Mercury -41805-09-26 00:42 J -13547584.59 -13547584.47 -13547584.35 0.2664 0.0225

Mercury -41802-03-28 11:30 J -13546671.12 -13546671.02 -13546670.92 0.2666 0.1693

Mercury -41798-09-19 14:09 J -13545034.96 -13545034.91 -13545034.86 0.2660 0.2428

Mercury -41795-03-20 18:14 J -13544121.85 -13544121.74 -13544121.63 0.2671 0.1342

Mercury -41792-09-28 21:35 J -13542833.72 -13542833.60 -13542833.49 0.2666 0.1120

Venus -41785-04-12 08:09 J -13540446.31 -13540446.16 -13540446.02 0.2656 0.0988

Mercury -41785-09-21 11:45 J -13540284.12 -13540284.01 -13540283.91 0.2661 0.1465

Mercury -41782-03-23 17:30 J -13539370.90 -13539370.77 -13539370.64 0.2669 0.0303

Mercury -41779-10-01 17:59 J -13538082.83 -13538082.75 -13538082.67 0.2667 0.1983

Venus -41777-04-10 00:57 J -13537526.51 -13537526.46 -13537526.39 0.2658 0.2439

Mercury -41772-09-24 08:52 J -13535533.25 -13535533.13 -13535533.00 0.2663 0.0536

Mercury -41769-03-25 17:16 J -13534619.91 -13534619.78 -13534619.65 0.2667 0.0780

Mercury -41762-03-19 00:42 J -13532070.54 -13532070.47 -13532070.39 0.2672 0.2172

Mercury -41759-09-27 05:59 J -13530782.37 -13530782.25 -13530782.13 0.2664 0.0384

Mercury -41756-03-28 17:02 J -13529868.88 -13529868.79 -13529868.69 0.2666 0.1886

Mercury -41752-09-19 19:26 J -13528232.75 -13528232.69 -13528232.62 0.2660 0.2258

Mercury -41749-03-20 23:45 J -13527319.63 -13527319.51 -13527319.39 0.2670 0.1161

Mercury -41746-09-30 02:38 J -13526031.49 -13526031.39 -13526031.28 0.2666 0.1274

Mercury -41739-09-22 17:02 J -13523481.90 -13523481.79 -13523481.68 0.2661 0.1298

Mercury -41736-03-23 23:02 J -13522568.67 -13522568.54 -13522568.40 0.2669 0.0139

Mercury -41733-10-01 23:16 J -13521280.60 -13521280.53 -13521280.46 0.2668 0.2137

Mercury -41726-09-25 14:23 J -13518731.03 -13518730.90 -13518730.78 0.2663 0.0377

Mercury -41723-03-26 22:47 J -13517817.68 -13517817.55 -13517817.42 0.2667 0.0964

Mercury -41716-03-19 06:14 J -13515268.32 -13515268.24 -13515268.15 0.2672 0.1996

Mercury -41713-09-27 11:16 J -13513980.15 -13513980.03 -13513979.91 0.2665 0.0547

Mercury -41710-03-29 22:47 J -13513066.63 -13513066.55 -13513066.46 0.2665 0.2086

Mercury -41706-09-21 00:57 J -13511430.54 -13511430.46 -13511430.39 0.2660 0.2089

Mercury -41703-03-22 05:16 J -13510517.40 -13510517.28 -13510517.15 0.2670 0.0980

Mercury -41700-09-30 07:54 J -13509229.27 -13509229.17 -13509229.07 0.2666 0.1428

Mercury -41693-09-22 22:18 J -13506679.68 -13506679.57 -13506679.45 0.2662 0.1131

Mercury -41690-03-25 04:47 J -13505766.44 -13505766.30 -13505766.17 0.2668 0.0081

Mercury -41687-10-03 04:18 J -13504478.38 -13504478.32 -13504478.25 0.2668 0.2290

Mercury -41680-09-25 19:26 J -13501928.81 -13501928.69 -13501928.56 0.2663 0.0212

Mercury -41677-03-27 04:33 J -13501015.43 -13501015.31 -13501015.19 0.2667 0.1161

Mercury -41670-03-20 11:45 J -13498466.10 -13498466.01 -13498465.91 0.2672 0.1817

Mercury -41667-09-28 16:33 J -13497177.93 -13497177.81 -13497177.70 0.2665 0.0707

Mercury -41664-03-30 04:33 J -13496264.38 -13496264.31 -13496264.24 0.2665 0.2276

Mercury -41660-09-21 06:14 J -13494628.33 -13494628.24 -13494628.15 0.2660 0.1916

Mercury -41657-03-22 11:02 J -13493715.17 -13493715.04 -13493714.92 0.2670 0.0795

Mercury -41654-10-01 13:11 J -13492427.05 -13492426.95 -13492426.85 0.2667 0.1586

Venus -41648-10-14 04:33 J -13490222.46 -13490222.31 -13490222.16 0.2675 0.0921

Mercury -41647-09-24 03:35 J -13489877.46 -13489877.35 -13489877.23 0.2662 0.0967

Mercury -41644-03-25 10:18 J -13488964.20 -13488964.07 -13488963.94 0.2668 0.0261

Mercury -41641-10-03 09:35 J -13487676.14 -13487676.10 -13487676.05 0.2668 0.2440

Mercury -41637-03-17 18:28 J -13486414.75 -13486414.73 -13486414.71 0.2673 0.2631

Mercury -41634-09-27 00:42 J -13485126.59 -13485126.47 -13485126.34 0.2664 0.0084

Mercury -41631-03-28 10:04 J -13484213.19 -13484213.08 -13484212.96 0.2666 0.1353

Mercury -41624-03-20 17:16 J -13481663.88 -13481663.78 -13481663.67 0.2671 0.1639

Mercury -41621-09-28 21:35 J -13480375.71 -13480375.60 -13480375.48 0.2665 0.0866

Mercury -41618-03-31 10:18 J -13479462.12 -13479462.07 -13479462.02 0.2665 0.2479

Mercury -41614-09-22 11:30 J -13477826.11 -13477826.02 -13477825.92 0.2661 0.1748

Mercury -41611-03-23 16:33 J -13476912.94 -13476912.81 -13476912.68 0.2670 0.0611

Mercury -41608-10-01 18:14 J -13475624.83 -13475624.74 -13475624.64 0.2667 0.1739

Mercury -41601-09-24 08:52 J -13473075.25 -13473075.13 -13473075.01 0.2662 0.0803

Mercury -41598-03-26 16:04 J -13472161.96 -13472161.83 -13472161.70 0.2668 0.0455

Mercury -41595-10-04 14:52 J -13470873.91 -13470873.88 -13470873.86 0.2668 0.2591

Mercury -41591-03-18 23:59 J -13469612.55 -13469612.50 -13469612.45 0.2673 0.2455

Mercury -41588-09-27 05:59 J -13468324.37 -13468324.25 -13468324.12 0.2664 0.0130

Mercury -41585-03-28 15:50 J -13467410.95 -13467410.84 -13467410.73 0.2666 0.1547

Mercury -41581-09-19 19:11 J -13465774.73 -13465774.70 -13465774.66 0.2660 0.2547

Mercury -41578-03-21 23:02 J -13464861.65 -13464861.54 -13464861.44 0.2671 0.1461

Mercury -41575-09-30 02:52 J -13463573.49 -13463573.38 -13463573.27 0.2665 0.1018

Mercury -41568-09-22 16:47 J -13461023.90 -13461023.80 -13461023.69 0.2661 0.1580

Mercury -41565-03-23 22:04 J -13460110.71 -13460110.58 -13460110.45 0.2669 0.0426

Mercury -41562-10-02 23:30 J -13458822.60 -13458822.52 -13458822.43 0.2667 0.1894

Mercury -41555-09-25 14:09 J -13456273.03 -13456272.91 -13456272.78 0.2663 0.0641

Mercury -41552-03-26 21:35 J -13455359.73 -13455359.60 -13455359.47 0.2668 0.0640

Mercury -41545-03-19 05:30 J -13452810.34 -13452810.27 -13452810.20 0.2672 0.2285

Venus -41542-04-13 11:02 J -13451690.18 -13451690.04 -13451689.90 0.2657 0.1228

Mercury -41542-09-28 11:16 J -13451522.15 -13451522.03 -13451521.90 0.2664 0.0286

Mercury -41539-03-29 21:35 J -13450608.70 -13450608.60 -13450608.50 0.2666 0.1745

Mercury -41535-09-21 00:42 J -13448972.53 -13448972.47 -13448972.42 0.2660 0.2372

Venus -41534-04-11 03:35 J -13448770.43 -13448770.35 -13448770.26 0.2658 0.2227

Mercury -41532-03-22 04:18 J -13448059.43 -13448059.32 -13448059.20 0.2671 0.1282

Mercury -41529-09-30 08:09 J -13446771.27 -13446771.16 -13446771.05 0.2666 0.1176

Mercury -41522-09-23 22:18 J -13444221.68 -13444221.57 -13444221.47 0.2661 0.1410

Mercury -41519-03-25 03:35 J -13443308.48 -13443308.35 -13443308.21 0.2669 0.0252

Mercury -41516-10-03 04:47 J -13442020.38 -13442020.30 -13442020.23 0.2667 0.2044

Mercury -41509-09-25 19:26 J -13439470.81 -13439470.69 -13439470.56 0.2663 0.0475

Mercury -41506-03-28 03:21 J -13438557.49 -13438557.36 -13438557.24 0.2667 0.0836

Mercury -41499-03-20 11:02 J -13436008.12 -13436008.04 -13436007.96 0.2672 0.2106

Mercury -41496-09-28 16:33 J -13434719.93 -13434719.81 -13434719.69 0.2664 0.0441

Mercury -41493-03-30 03:06 J -13433806.46 -13433806.37 -13433806.28 0.2666 0.1939

Mercury -41489-09-21 05:59 J -13432170.32 -13432170.25 -13432170.18 0.2660 0.2201

Mercury -41486-03-23 10:04 J -13431257.20 -13431257.08 -13431256.96 0.2670 0.1103

Mercury -41483-10-01 13:26 J -13429969.05 -13429968.94 -13429968.84 0.2666 0.1333

Mercury -41476-09-24 03:35 J -13427419.46 -13427419.35 -13427419.24 0.2661 0.1240

Mercury -41473-03-25 09:06 J -13426506.25 -13426506.12 -13426505.98 0.2669 0.0111

Mercury -41470-10-04 09:50 J -13425218.15 -13425218.09 -13425218.02 0.2668 0.2201

Mercury -41463-09-27 00:42 J -13422668.59 -13422668.47 -13422668.34 0.2663 0.0320

Mercury -41460-03-28 08:52 J -13421755.25 -13421755.13 -13421755.00 0.2667 0.1023

Mercury -41453-03-20 16:33 J -13419205.90 -13419205.81 -13419205.72 0.2672 0.1935

Mercury -41450-09-29 21:50 J -13417917.71 -13417917.59 -13417917.47 0.2665 0.0605

Mercury -41447-03-31 08:52 J -13417004.21 -13417004.13 -13417004.05 0.2665 0.2136

Mercury -41443-09-22 11:30 J -13415368.10 -13415368.02 -13415367.94 0.2660 0.2030

Mercury -41440-03-23 15:35 J -13414454.98 -13414454.85 -13414454.73 0.2670 0.0924

Mercury -41437-10-01 18:28 J -13413166.83 -13413166.73 -13413166.62 0.2666 0.1490

Mercury -41430-09-25 08:52 J -13410617.24 -13410617.13 -13410617.01 0.2662 0.1074

Mercury -41427-03-26 14:52 J -13409704.01 -13409703.88 -13409703.75 0.2668 0.0131

Mercury -41424-10-04 15:06 J -13408415.93 -13408415.87 -13408415.81 0.2668 0.2347

Mercury -41417-09-27 05:59 J -13405866.37 -13405866.25 -13405866.12 0.2663 0.0170

Mercury -41414-03-29 14:38 J -13404953.01 -13404952.89 -13404952.77 0.2667 0.1216

Mercury -41407-03-21 22:04 J -13402403.68 -13402403.58 -13402403.48 0.2671 0.1754

Venus -41405-10-14 04:18 J -13401466.47 -13401466.32 -13401466.17 0.2674 0.0902

Mercury -41404-09-30 03:06 J -13401115.49 -13401115.37 -13401115.25 0.2665 0.0763

Mercury -41401-03-31 14:38 J -13400201.96 -13400201.89 -13400201.83 0.2665 0.2330

Mercury -41397-09-22 16:47 J -13398565.89 -13398565.80 -13398565.71 0.2660 0.1860

Mercury -41394-03-24 21:06 J -13397652.75 -13397652.62 -13397652.50 0.2670 0.0739

Mercury -41391-10-02 23:45 J -13396364.60 -13396364.51 -13396364.41 0.2667 0.1645

Mercury -41384-09-25 14:09 J -13393815.03 -13393814.91 -13393814.79 0.2662 0.0908

Mercury -41381-03-26 20:23 J -13392901.78 -13392901.65 -13392901.52 0.2668 0.0317

Mercury -41378-10-05 20:23 J -13391613.69 -13391613.65 -13391613.62 0.2668 0.2502

Mercury -41374-03-20 04:47 J -13390352.33 -13390352.30 -13390352.27 0.2673 0.2566

Mercury -41371-09-28 11:16 J -13389064.15 -13389064.03 -13389063.90 0.2664 0.0101

Mercury -41368-03-29 20:09 J -13388150.77 -13388150.66 -13388150.55 0.2666 0.1405

Mercury -41361-03-22 03:35 J -13385601.46 -13385601.35 -13385601.25 0.2671 0.1577

Mercury -41358-10-01 08:23 J -13384313.27 -13384313.15 -13384313.04 0.2665 0.0925

Mercury -41355-04-01 20:23 J -13383399.69 -13383399.65 -13383399.61 0.2665 0.2531

Mercury -41351-09-23 22:04 J -13381763.68 -13381763.58 -13381763.48 0.2661 0.1691

Mercury -41348-03-25 02:38 J -13380850.52 -13380850.39 -13380850.26 0.2670 0.0551

Mercury -41345-10-03 05:02 J -13379562.38 -13379562.29 -13379562.20 0.2667 0.1798

Mercury -41338-09-26 19:26 J -13377012.81 -13377012.69 -13377012.57 0.2662 0.0743

Mercury -41335-03-28 02:09 J -13376099.54 -13376099.41 -13376099.28 0.2668 0.0510

Mercury -41332-10-06 01:26 J -13374811.45 -13374811.44 -13374811.43 0.2669 0.2651

Mercury -41328-03-20 10:18 J -13373550.13 -13373550.07 -13373550.02 0.2673 0.2391

Mercury -41325-09-28 16:33 J -13372261.93 -13372261.81 -13372261.68 0.2664 0.0194

Mercury -41322-03-31 01:54 J -13371348.53 -13371348.42 -13371348.32 0.2666 0.1601

Mercury -41318-09-22 05:45 J -13369712.30 -13369712.26 -13369712.22 0.2660 0.2491

Mercury -41315-03-23 09:06 J -13368799.23 -13368799.12 -13368799.01 0.2671 0.1395

Mercury -41312-10-01 13:40 J -13367511.05 -13367510.93 -13367510.82 0.2666 0.1083

Mercury -41305-09-24 03:21 J -13364961.46 -13364961.36 -13364961.25 0.2661 0.1522

Mercury -41302-03-26 08:09 J -13364048.29 -13364048.16 -13364048.02 0.2669 0.0374

Venus -41299-04-13 13:26 J -13362934.07 -13362933.94 -13362933.81 0.2658 0.1408

Mercury -41299-10-04 10:18 J -13362760.15 -13362760.07 -13362759.99 0.2667 0.1956

Mercury -41292-09-27 00:42 J -13360210.59 -13360210.47 -13360210.34 0.2663 0.0581

Venus -41291-04-11 06:28 J -13360014.33 -13360014.23 -13360014.12 0.2659 0.1985

Mercury -41289-03-28 07:40 J -13359297.31 -13359297.18 -13359297.05 0.2668 0.0699

Mercury -41282-03-21 15:50 J -13356747.91 -13356747.84 -13356747.77 0.2672 0.2222

Mercury -41279-09-29 21:50 J -13355459.71 -13355459.59 -13355459.46 0.2664 0.0353

Mercury -41276-03-31 07:26 J -13354546.28 -13354546.19 -13354546.09 0.2666 0.1797

Mercury -41272-09-22 11:02 J -13352910.09 -13352910.04 -13352909.97 0.2660 0.2319

Mercury -41269-03-23 14:38 J -13351997.01 -13351996.89 -13351996.78 0.2671 0.1219

Mercury -41266-10-02 18:42 J -13350708.83 -13350708.72 -13350708.61 0.2666 0.1239

Mercury -41259-09-25 08:38 J -13348159.24 -13348159.14 -13348159.03 0.2661 0.1356

Mercury -41256-03-26 13:54 J -13347246.06 -13347245.92 -13347245.79 0.2669 0.0189

Mercury -41253-10-04 15:21 J -13345957.93 -13345957.86 -13345957.78 0.2667 0.2105

Mercury -41246-09-28 05:59 J -13343408.37 -13343408.25 -13343408.12 0.2663 0.0420

Mercury -41243-03-29 13:26 J -13342495.07 -13342494.94 -13342494.82 0.2667 0.0890

Mercury -41236-03-21 21:21 J -13339945.70 -13339945.61 -13339945.53 0.2672 0.2044

Mercury -41233-09-30 03:06 J -13338657.49 -13338657.37 -13338657.25 0.2664 0.0505

Mercury -41230-04-01 13:11 J -13337744.04 -13337743.95 -13337743.86 0.2666 0.1991

Mercury -41226-09-23 16:33 J -13336107.88 -13336107.81 -13336107.74 0.2660 0.2146

Mercury -41223-03-24 20:09 J -13335194.78 -13335194.66 -13335194.54 0.2670 0.1038

Mercury -41220-10-02 23:59 J -13333906.60 -13333906.50 -13333906.40 0.2666 0.1392

Mercury -41213-09-25 14:09 J -13331357.03 -13331356.91 -13331356.80 0.2662 0.1187

Mercury -41210-03-27 19:26 J -13330443.83 -13330443.69 -13330443.56 0.2669 0.0041

Mercury -41207-10-05 20:38 J -13329155.70 -13329155.64 -13329155.58 0.2668 0.2261

Mercury -41200-09-28 11:16 J -13326606.15 -13326606.03 -13326605.90 0.2663 0.0268

Mercury -41197-03-29 18:57 J -13325692.83 -13325692.71 -13325692.59 0.2667 0.1078

Mercury -41190-03-23 02:38 J -13323143.48 -13323143.39 -13323143.29 0.2672 0.1873

Mercury -41187-10-01 08:23 J -13321855.27 -13321855.15 -13321855.03 0.2665 0.0665

Mercury -41184-04-01 18:57 J -13320941.79 -13320941.71 -13320941.64 0.2665 0.2189

Mercury -41180-09-23 21:50 J -13319305.67 -13319305.59 -13319305.50 0.2660 0.1974

Mercury -41177-03-25 01:40 J -13318392.55 -13318392.43 -13318392.30 0.2670 0.0855

Mercury -41174-10-04 05:16 J -13317104.38 -13317104.28 -13317104.18 0.2666 0.1550

Mercury -41167-09-26 19:26 J -13314554.81 -13314554.69 -13314554.57 0.2662 0.1017

Mercury -41164-03-28 00:57 J -13313641.59 -13313641.46 -13313641.32 0.2668 0.0195

Venus -41162-10-15 03:50 J -13312710.49 -13312710.34 -13312710.19 0.2673 0.0913

Mercury -41161-10-06 01:40 J -13312353.47 -13312353.43 -13312353.38 0.2668 0.2411

Mercury -41154-09-29 16:33 J -13309803.93 -13309803.81 -13309803.68 0.2663 0.0130

Mercury -41151-03-31 00:42 J -13308890.59 -13308890.47 -13308890.36 0.2667 0.1273

Mercury -41144-03-23 08:09 J -13306341.26 -13306341.16 -13306341.06 0.2671 0.1692

Mercury -41141-10-01 13:40 J -13305053.05 -13305052.93 -13305052.81 0.2665 0.0822

Mercury -41138-04-03 00:28 J -13304139.53 -13304139.48 -13304139.42 0.2665 0.2382

Mercury -41134-09-25 03:06 J -13302503.46 -13302503.37 -13302503.27 0.2660 0.1807

Mercury -41131-03-26 07:11 J -13301590.33 -13301590.20 -13301590.07 0.2670 0.0679

Mercury -41128-10-04 10:33 J -13300302.16 -13300302.06 -13300301.97 0.2667 0.1708

Mercury -41121-09-27 00:42 J -13297752.59 -13297752.47 -13297752.35 0.2662 0.0849

Mercury -41118-03-29 06:28 J -13296839.36 -13296839.23 -13296839.09 0.2668 0.0384

Mercury -41115-10-07 06:57 J -13295551.24 -13295551.21 -13295551.18 0.2668 0.2563

Mercury -41111-03-21 15:06 J -13294289.92 -13294289.87 -13294289.83 0.2673 0.2502

Mercury -41108-09-29 22:04 J -13293001.71 -13293001.58 -13293001.46 0.2664 0.0108

Mercury -41105-03-31 06:14 J -13292088.35 -13292088.24 -13292088.13 0.2666 0.1463

Mercury -41101-09-22 10:47 J -13290452.07 -13290452.05 -13290452.03 0.2659 0.2609

Mercury -41098-03-24 13:40 J -13289539.03 -13289538.93 -13289538.82 0.2671 0.1517

Mercury -41095-10-02 18:57 J -13288250.83 -13288250.71 -13288250.60 0.2665 0.0984

Mercury -41092-04-03 06:14 J -13287337.27 -13287337.24 -13287337.21 0.2665 0.2581

Mercury -41088-09-25 08:38 J -13285701.24 -13285701.14 -13285701.04 0.2661 0.1631

Mercury -41085-03-26 12:42 J -13284788.10 -13284787.97 -13284787.84 0.2669 0.0496

Mercury -41082-10-05 15:35 J -13283499.93 -13283499.85 -13283499.76 0.2667 0.1860

Mercury -41075-09-28 05:59 J -13280950.37 -13280950.25 -13280950.13 0.2662 0.0685

Mercury -41072-03-29 12:14 J -13280037.12 -13280036.99 -13280036.86 0.2668 0.0565

Mercury -41065-03-21 20:38 J -13277487.70 -13277487.64 -13277487.58 0.2673 0.2326

Mercury -41062-10-01 03:21 J -13276199.49 -13276199.36 -13276199.24 0.2664 0.0263

Mercury -41059-04-01 11:59 J -13275286.11 -13275286.00 -13275285.90 0.2666 0.1655

Venus -41056-04-13 16:33 J -13274177.94 -13274177.81 -13274177.69 0.2658 0.1651

Mercury -41055-09-23 16:18 J -13273649.87 -13273649.82 -13273649.77 0.2660 0.2436

Mercury -41052-03-24 19:26 J -13272736.81 -13272736.69 -13272736.58 0.2671 0.1335

Mercury -41049-10-03 00:14 J -13271448.60 -13271448.49 -13271448.38 0.2666 0.1141

Venus -41048-04-11 09:35 J -13271258.22 -13271258.10 -13271257.99 0.2660 0.1758

Mercury -41042-09-26 13:54 J -13268899.02 -13268898.92 -13268898.81 0.2661 0.1465

Mercury -41039-03-27 18:28 J -13267985.87 -13267985.73 -13267985.60 0.2669 0.0321

Mercury -41036-10-05 20:52 J -13266697.71 -13266697.63 -13266697.55 0.2667 0.2017

Mercury -41029-09-28 11:16 J -13264148.15 -13264148.03 -13264147.90 0.2663 0.0523

Mercury -41026-03-30 17:45 J -13263234.89 -13263234.76 -13263234.63 0.2667 0.0752

Mercury -41019-03-23 01:54 J -13260685.49 -13260685.42 -13260685.34 0.2672 0.2157

Mercury -41016-10-01 08:38 J -13259397.27 -13259397.14 -13259397.02 0.2664 0.0416

Mercury -41013-04-01 17:30 J -13258483.86 -13258483.77 -13258483.67 0.2666 0.1848

Mercury -41009-09-23 21:35 J -13256847.66 -13256847.60 -13256847.53 0.2660 0.2263

Mercury -41006-03-26 00:57 J -13255934.58 -13255934.46 -13255934.35 0.2671 0.1156

Mercury -41003-10-04 05:30 J -13254646.38 -13254646.27 -13254646.17 0.2666 0.1303

41ST MILLENNIUM BCE

This is a list of transits visible from Earth in the 41st millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-40996-09-26 19:11 J	-13252096.81	-13252096.70	-13252096.59	0.2661	0.1297		
Mercury	-40993-03-27 23:59 J	-13251183.63	-13251183.50	-13251183.37	0.2669	0.0120		
Mercury	-40990-10-07 02:09 J	-13249895.48	-13249895.41	-13249895.34	0.2667	0.2169		
Mercury	-40983-09-29 16:33 J	-13247345.93	-13247345.81	-13247345.68	0.2663	0.0363		
Mercury	-40980-03-30 23:30 J	-13246432.65	-13246432.52	-13246432.40	0.2667	0.0946		
Mercury	-40973-03-23 07:26 J	-13243883.27	-13243883.19	-13243883.10	0.2672	0.1977		
Mercury	-40970-10-02 13:40 J	-13242595.05	-13242594.93	-13242594.80	0.2664	0.0570		
Mercury	-40967-04-02 23:16 J	-13241681.62	-13241681.53	-13241681.45	0.2665	0.2043		
Mercury	-40963-09-25 02:52 J	-13240045.45	-13240045.38	-13240045.30	0.2660	0.2093		
Mercury	-40960-03-26 06:28 J	-13239132.36	-13239132.23	-13239132.11	0.2670	0.0976		
Mercury	-40957-10-04 10:33 J	-13237844.16	-13237844.06	-13237843.95	0.2666	0.1459		
Mercury	-40950-09-28 00:28 J	-13235294.59	-13235294.48	-13235294.36	0.2662	0.1132		
Mercury	-40947-03-29 05:30 J	-13234381.40	-13234381.27	-13234381.14	0.2669	0.0064		

Mercury -40944-10-07 07:11 J -13233093.25 -13233093.20 -13233093.14 0.2668 0.2326

Mercury -40937-09-29 21:50 J -13230543.71 -13230543.59 -13230543.46 0.2663 0.0212

Mercury -40934-04-01 05:02 J -13229630.41 -13229630.29 -13229630.17 0.2667 0.1138

Mercury -40927-03-24 12:57 J -13227081.05 -13227080.96 -13227080.86 0.2672 0.1806

Mercury -40924-10-02 18:57 J -13225792.83 -13225792.71 -13225792.59 0.2665 0.0728

Mercury -40921-04-03 05:02 J -13224879.36 -13224879.29 -13224879.22 0.2665 0.2240

Venus -40919-10-15 03:35 J -13223954.50 -13223954.35 -13223954.20 0.2672 0.0897

Mercury -40917-09-25 08:23 J -13223243.24 -13223243.15 -13223243.06 0.2660 0.1915

Mercury -40914-03-27 11:59 J -13222330.13 -13222330.00 -13222329.88 0.2670 0.0798

Mercury -40911-10-05 15:50 J -13221041.94 -13221041.84 -13221041.74 0.2666 0.1613

Mercury -40904-09-28 05:59 J -13218492.37 -13218492.25 -13218492.13 0.2662 0.0958

Mercury -40901-03-29 11:02 J -13217579.17 -13217579.04 -13217578.90 0.2668 0.0267

Mercury -40898-10-08 12:28 J -13216291.02 -13216290.98 -13216290.94 0.2668 0.2474

Mercury -40894-03-22 19:54 J -13215029.70 -13215029.67 -13215029.65 0.2673 0.2608

Mercury -40891-10-01 03:06 J -13213741.49 -13213741.37 -13213741.24 0.2663 0.0098

Mercury -40888-04-01 10:47 J -13212828.17 -13212828.05 -13212827.94 0.2667 0.1327

Mercury -40881-03-24 18:28 J -13210278.83 -13210278.73 -13210278.63 0.2671 0.1626

Mercury -40878-10-04 00:14 J -13208990.61 -13208990.49 -13208990.37 0.2665 0.0884

Mercury -40875-04-04 10:33 J -13208077.11 -13208077.06 -13208077.01 0.2665 0.2439

Mercury -40871-09-26 13:40 J -13206441.02 -13206440.93 -13206440.83 0.2661 0.1748

Mercury -40868-03-27 17:30 J -13205527.90 -13205527.77 -13205527.65 0.2670 0.0617

Mercury -40865-10-05 21:06 J -13204239.71 -13204239.62 -13204239.53 0.2667 0.1767

Mercury -40858-09-29 11:16 J -13201690.15 -13201690.03 -13201689.91 0.2662 0.0790

Mercury -40855-03-30 16:47 J -13200776.94 -13200776.80 -13200776.67 0.2668 0.0443

Mercury -40852-10-08 17:45 J -13199488.78 -13199488.76 -13199488.75 0.2668 0.2628

Mercury -40848-03-23 01:11 J -13198227.49 -13198227.45 -13198227.39 0.2673 0.2439

Mercury -40845-10-01 08:38 J -13196939.27 -13196939.14 -13196939.02 0.2664 0.0162

Mercury -40842-04-02 16:18 J -13196025.93 -13196025.82 -13196025.71 0.2666 0.1520

Mercury -40838-09-24 21:21 J -13194389.64 -13194389.61 -13194389.58 0.2659 0.2553

Mercury -40835-03-25 23:59 J -13193476.61 -13193476.50 -13193476.39 0.2671 0.1452

Mercury -40832-10-04 05:30 J -13192188.38 -13192188.27 -13192188.15 0.2665 0.1045

Mercury -40829-04-04 16:18 J -13191274.83 -13191274.82 -13191274.80 0.2665 0.2636

Mercury -40825-09-26 19:11 J -13189638.80 -13189638.70 -13189638.60 0.2661 0.1574

Mercury -40822-03-28 23:02 J -13188725.67 -13188725.54 -13188725.41 0.2669 0.0429

Mercury -40819-10-07 02:23 J -13187437.49 -13187437.40 -13187437.32 0.2667 0.1925

Venus -40813-04-13 19:26 J -13185421.80 -13185421.69 -13185421.58 0.2659 0.1875

Mercury -40812-09-29 16:33 J -13184887.93 -13184887.81 -13184887.69 0.2662 0.0624

Mercury -40809-03-30 22:18 J -13183974.70 -13183974.57 -13183974.44 0.2668 0.0623

Venus -40805-04-11 12:42 J -13182502.10 -13182501.97 -13182501.85 0.2660 0.1507

Mercury -40802-03-24 06:42 J -13181425.28 -13181425.22 -13181425.15 0.2673 0.2264

Mercury -40799-10-02 13:54 J -13180137.05 -13180136.92 -13180136.80 0.2664 0.0313

Mercury -40796-04-02 22:04 J -13179223.69 -13179223.58 -13179223.48 0.2666 0.1712

Mercury -40792-09-25 02:38 J -13177587.44 -13177587.39 -13177587.33 0.2660 0.2378

Mercury -40789-03-26 05:30 J -13176674.38 -13176674.27 -13176674.15 0.2671 0.1271

Mercury -40786-10-05 10:47 J -13175386.16 -13175386.05 -13175385.94 0.2666 0.1204

Mercury -40779-09-28 00:28 J -13172836.59 -13172836.48 -13172836.37 0.2661 0.1406

Mercury -40776-03-29 04:33 J -13171923.44 -13171923.31 -13171923.18 0.2669 0.0252

Mercury -40773-10-07 07:26 J -13170635.26 -13170635.19 -13170635.11 0.2667 0.2081

Mercury -40766-09-30 21:50 J -13168085.71 -13168085.59 -13168085.46 0.2663 0.0460

Mercury -40763-04-01 03:50 J -13167172.46 -13167172.34 -13167172.21 0.2667 0.0816

Mercury -40756-03-24 12:14 J -13164623.07 -13164622.99 -13164622.91 0.2672 0.2089

Mercury -40753-10-02 19:11 J -13163334.83 -13163334.70 -13163334.58 0.2664 0.0469

Mercury -40750-04-04 03:35 J -13162421.44 -13162421.35 -13162421.25 0.2666 0.1906

Mercury -40746-09-26 08:09 J -13160785.23 -13160785.16 -13160785.09 0.2660 0.2205

Mercury -40743-03-27 11:02 J -13159872.16 -13159872.04 -13159871.92 0.2671 0.1095

Mercury -40740-10-05 16:04 J -13158583.94 -13158583.83 -13158583.73 0.2666 0.1362

Mercury -40733-09-28 05:45 J -13156034.37 -13156034.26 -13156034.15 0.2661 0.1235

Mercury -40730-03-30 10:04 J -13155121.21 -13155121.08 -13155120.95 0.2669 0.0071

Mercury -40727-10-08 12:42 J -13153833.03 -13153832.97 -13153832.90 0.2668 0.2233

Mercury -40720-10-01 03:06 J -13151283.49 -13151283.37 -13151283.24 0.2663 0.0303

Mercury -40717-04-01 09:35 J -13150370.23 -13150370.10 -13150369.98 0.2667 0.1001

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Mercury -40707-10-04 00:28 J -13146532.61 -13146532.48 -13146532.36 0.2665 0.0635

Mercury -40704-04-04 09:21 J -13145619.19 -13145619.11 -13145619.03 0.2665 0.2099

Mercury -40700-09-26 13:26 J -13143983.02 -13143982.94 -13143982.86 0.2660 0.2033

Mercury -40697-03-27 16:33 J -13143069.93 -13143069.81 -13143069.69 0.2670 0.0911

Mercury -40694-10-06 21:21 J -13141781.71 -13141781.61 -13141781.51 0.2666 0.1519

Mercury -40687-09-29 11:02 J -13139232.15 -13139232.04 -13139231.92 0.2662 0.1072

Mercury -40684-03-30 15:35 J -13138318.98 -13138318.85 -13138318.71 0.2669 0.0144

Mercury -40681-10-08 17:59 J -13137030.80 -13137030.75 -13137030.70 0.2668 0.2387

Venus -40676-10-15 02:52 J -13135198.53 -13135198.38 -13135198.23 0.2672 0.0917

Mercury -40674-10-02 08:38 J -13134481.27 -13134481.14 -13134481.02 0.2663 0.0151

Mercury -40671-04-02 15:06 J -13133567.99 -13133567.87 -13133567.75 0.2667 0.1193

Mercury -40664-03-25 23:16 J -13131018.63 -13131018.53 -13131018.43 0.2672 0.1740

Mercury -40661-10-04 05:45 J -13129730.38 -13129730.26 -13129730.15 0.2665 0.0792

Mercury -40658-04-05 14:52 J -13128816.94 -13128816.88 -13128816.81 0.2665 0.2296

Mercury -40654-09-27 18:57 J -13127180.80 -13127180.71 -13127180.62 0.2660 0.1863

Mercury -40651-03-28 22:04 J -13126267.70 -13126267.58 -13126267.45 0.2670 0.0732

Mercury -40648-10-07 02:23 J -13124979.49 -13124979.40 -13124979.30 0.2666 0.1680

Mercury -40641-09-29 16:33 J -13122429.93 -13122429.81 -13122429.70 0.2662 0.0902

Mercury -40638-03-31 21:21 J -13121516.74 -13121516.61 -13121516.48 0.2668 0.0313

Mercury -40635-10-09 23:02 J -13120228.57 -13120228.54 -13120228.50 0.2668 0.2541

Mercury -40631-03-24 06:14 J -13118967.28 -13118967.24 -13118967.21 0.2673 0.2543

Mercury -40628-10-02 13:54 J -13117679.05 -13117678.92 -13117678.80 0.2663 0.0099

Mercury -40625-04-02 20:52 J -13116765.75 -13116765.63 -13116765.52 0.2667 0.1385

Mercury -40618-03-27 04:47 J -13114216.41 -13114216.30 -13114216.20 0.2671 0.1561

Mercury -40615-10-05 11:02 J -13112928.16 -13112928.04 -13112927.93 0.2665 0.0953

Mercury -40612-04-05 20:38 J -13112014.69 -13112014.64 -13112014.60 0.2665 0.2490

Mercury -40608-09-28 00:14 J -13110378.59 -13110378.49 -13110378.39 0.2661 0.1689

Mercury -40605-03-29 03:35 J -13109465.48 -13109465.35 -13109465.22 0.2670 0.0553

Mercury -40602-10-08 07:40 J -13108177.26 -13108177.18 -13108177.09 0.2667 0.1834

Mercury -40595-09-30 21:50 J -13105627.71 -13105627.59 -13105627.47 0.2662 0.0733

Mercury -40592-04-01 02:52 J -13104714.51 -13104714.38 -13104714.25 0.2668 0.0497

Mercury -40585-03-24 11:30 J -13102165.07 -13102165.02 -13102164.96 0.2673 0.2371

Mercury -40582-10-03 19:11 J -13100876.83 -13100876.70 -13100876.58 0.2664 0.0211

Mercury -40579-04-04 02:23 J -13099963.50 -13099963.40 -13099963.29 0.2666 0.1581

Mercury -40575-09-26 07:54 J -13098327.22 -13098327.17 -13098327.13 0.2659 0.2497

Mercury -40572-03-27 10:18 J -13097414.18 -13097414.07 -13097413.96 0.2671 0.1390

Venus -40570-04-14 22:33 J -13096665.66 -13096665.56 -13096665.47 0.2660 0.2107

Mercury -40569-10-05 16:04 J -13096125.94 -13096125.83 -13096125.71 0.2665 0.1109

Venus -40562-04-12 15:50 J -13093745.98 -13093745.84 -13093745.70 0.2661 0.1253

Mercury -40562-09-29 05:30 J -13093576.37 -13093576.27 -13093576.16 0.2661 0.1517

Mercury -40559-03-30 09:06 J -13092663.25 -13092663.12 -13092662.99 0.2669 0.0375

Mercury -40556-10-08 12:57 J -13091375.04 -13091374.96 -13091374.88 0.2667 0.1988

Mercury -40549-10-01 03:06 J -13088825.49 -13088825.37 -13088825.25 0.2663 0.0563

Mercury -40546-04-02 08:23 J -13087912.27 -13087912.15 -13087912.02 0.2668 0.0690

Mercury -40539-03-25 17:02 J -13085362.86 -13085362.79 -13085362.72 0.2672 0.2199

Mercury -40536-10-04 00:28 J -13084074.61 -13084074.48 -13084074.36 0.2664 0.0372

Mercury -40533-04-04 08:09 J -13083161.26 -13083161.16 -13083161.06 0.2666 0.1769

Mercury -40529-09-26 13:11 J -13081525.01 -13081524.95 -13081524.89 0.2660 0.2320

Mercury -40526-03-28 15:50 J -13080611.96 -13080611.84 -13080611.73 0.2671 0.1208

Mercury -40523-10-06 21:21 J -13079323.72 -13079323.61 -13079323.50 0.2666 0.1266

Mercury -40516-09-29 11:02 J -13076774.15 -13076774.04 -13076773.93 0.2661 0.1349

Mercury -40513-03-30 14:38 J -13075861.02 -13075860.89 -13075860.75 0.2669 0.0206

Mercury -40510-10-09 18:14 J -13074572.81 -13074572.74 -13074572.67 0.2667 0.2143

Mercury -40503-10-02 08:23 J -13072023.27 -13072023.15 -13072023.02 0.2663 0.0403

Mercury -40500-04-02 14:09 J -13071110.04 -13071109.91 -13071109.79 0.2667 0.0876

Mercury -40493-03-25 22:33 J -13068560.64 -13068560.56 -13068560.48 0.2672 0.2025

Mercury -40490-10-05 05:45 J -13067272.38 -13067272.26 -13067272.14 0.2664 0.0530

Mercury -40487-04-05 13:40 J -13066359.02 -13066358.93 -13066358.84 0.2666 0.1967

Mercury -40483-09-27 18:28 J -13064722.80 -13064722.73 -13064722.65 0.2660 0.2150

Mercury -40480-03-28 21:21 J -13063809.73 -13063809.61 -13063809.49 0.2670 0.1032

Mercury -40477-10-07 02:38 J -13062521.49 -13062521.39 -13062521.29 0.2666 0.1425

Mercury -40470-09-30 16:18 J -13059971.93 -13059971.82 -13059971.71 0.2661 0.1174

Mercury -40467-03-31 20:23 J -13059058.79 -13059058.65 -13059058.52 0.2669 0.0053

Mercury -40464-10-09 23:16 J -13057770.58 -13057770.53 -13057770.47 0.2668 0.2300

Mercury -40457-10-02 13:40 J -13055221.05 -13055220.93 -13055220.80 0.2663 0.0245

Mercury -40454-04-03 19:40 J -13054307.80 -13054307.68 -13054307.56 0.2667 0.1061

Mercury -40447-03-27 04:04 J -13051758.42 -13051758.33 -13051758.24 0.2672 0.1847

Mercury -40444-10-05 11:02 J -13050470.16 -13050470.04 -13050469.92 0.2665 0.0691

Mercury -40441-04-05 19:26 J -13049556.77 -13049556.69 -13049556.62 0.2665 0.2155

Mercury -40437-09-27 23:59 J -13047920.59 -13047920.50 -13047920.42 0.2660 0.1974

Mercury -40434-03-30 02:52 J -13047007.51 -13047007.38 -13047007.26 0.2670 0.0850

Venus -40433-10-15 02:23 J -13046442.55 -13046442.40 -13046442.25 0.2671 0.0900

Mercury -40431-10-08 07:54 J -13045719.27 -13045719.17 -13045719.07 0.2666 0.1585

Mercury -40424-09-30 21:35 J -13043169.71 -13043169.60 -13043169.48 0.2662 0.1009

Mercury -40421-04-01 01:54 J -13042256.56 -13042256.42 -13042256.29 0.2668 0.0191

Mercury -40418-10-11 04:33 J -13040968.35 -13040968.31 -13040968.26 0.2668 0.2453

Mercury -40414-03-25 11:02 J -13039707.05 -13039707.04 -13039707.02 0.2673 0.2644

Mercury -40411-10-03 19:11 J -13038418.83 -13038418.70 -13038418.58 0.2663 0.0112

Mercury -40408-04-04 01:11 J -13037505.56 -13037505.45 -13037505.33 0.2667 0.1256

Mercury -40401-03-27 09:35 J -13034956.20 -13034956.10 -13034956.00 0.2672 0.1674

Mercury -40398-10-06 16:18 J -13033667.94 -13033667.82 -13033667.71 0.2665 0.0854

Mercury -40395-04-07 00:57 J -13032754.52 -13032754.46 -13032754.39 0.2665 0.2353

Mercury -40391-09-29 05:16 J -13031118.37 -13031118.28 -13031118.18 0.2660 0.1803

Mercury -40388-03-30 08:23 J -13030205.28 -13030205.15 -13030205.02 0.2670 0.0668

Mercury -40385-10-08 13:11 J -13028917.04 -13028916.95 -13028916.86 0.2667 0.1741

Mercury -40378-10-02 03:06 J -13026367.49 -13026367.37 -13026367.25 0.2662 0.0841

Mercury -40375-04-02 07:26 J -13025454.32 -13025454.19 -13025454.06 0.2668 0.0375

Mercury -40372-10-11 09:50 J -13024166.11 -13024166.09 -13024166.07 0.2668 0.2606

Mercury -40368-03-25 16:33 J -13022904.86 -13022904.81 -13022904.77 0.2673 0.2473

Mercury -40365-10-04 00:28 J -13021616.61 -13021616.48 -13021616.36 0.2664 0.0132

Mercury -40362-04-05 06:57 J -13020703.32 -13020703.21 -13020703.10 0.2666 0.1441

Mercury -40358-09-27 12:42 J -13019066.99 -13019066.97 -13019066.95 0.2659 0.2616

Mercury -40355-03-28 15:06 J -13018153.98 -13018153.87 -13018153.76 0.2671 0.1495

Mercury -40352-10-06 21:35 J -13016865.72 -13016865.60 -13016865.49 0.2665 0.1016

Mercury -40349-04-07 06:42 J -13015952.26 -13015952.22 -13015952.18 0.2665 0.2547

Mercury -40345-09-29 10:47 J -13014316.15 -13014316.05 -13014315.95 0.2661 0.1633

Mercury -40342-03-31 13:54 J -13013403.05 -13013402.92 -13013402.79 0.2670 0.0485

Mercury -40339-10-09 18:28 J -13012114.82 -13012114.73 -13012114.65 0.2667 0.1899

Mercury -40332-10-02 08:23 J -13009565.27 -13009565.15 -13009565.03 0.2662 0.0672

Mercury -40329-04-02 12:57 J -13008652.09 -13008651.96 -13008651.83 0.2668 0.0561

Venus -40327-04-15 01:40 J -13007909.50 -13007909.43 -13007909.36 0.2660 0.2363

Mercury -40322-03-26 21:50 J -13006102.65 -13006102.59 -13006102.52 0.2673 0.2306

Venus -40319-04-12 19:11 J -13004989.85 -13004989.70 -13004989.56 0.2662 0.0997

Mercury -40319-10-05 05:45 J -13004814.39 -13004814.26 -13004814.14 0.2664 0.0271

Mercury -40316-04-05 12:28 J -13003901.08 -13003900.98 -13003900.87 0.2666 0.1640

Mercury -40312-09-27 18:14 J -13002264.79 -13002264.74 -13002264.69 0.2660 0.2441

Mercury -40309-03-28 20:38 J -13001351.76 -13001351.64 -13001351.53 0.2671 0.1322

Mercury -40306-10-08 02:52 J -13000063.50 -13000063.38 -13000063.27 0.2665 0.1175

Mercury -40299-09-30 16:04 J -12997513.93 -12997513.83 -12997513.72 0.2661 0.1458

Mercury -40296-03-31 19:26 J -12996600.82 -12996600.69 -12996600.56 0.2669 0.0302

Mercury -40293-10-09 23:30 J -12995312.59 -12995312.52 -12995312.44 0.2667 0.2056

Mercury -40286-10-03 13:40 J -12992763.06 -12992762.93 -12992762.81 0.2663 0.0504

Mercury -40283-04-03 18:42 J -12991849.85 -12991849.72 -12991849.59 0.2668 0.0750

Mercury -40276-03-27 03:21 J -12989300.43 -12989300.36 -12989300.28 0.2672 0.2131

Mercury -40273-10-05 11:02 J -12988012.17 -12988012.04 -12988011.92 0.2664 0.0431

Mercury -40270-04-06 18:14 J -12987098.84 -12987098.74 -12987098.65 0.2666 0.1827

Mercury -40266-09-28 23:45 J -12985462.58 -12985462.51 -12985462.45 0.2660 0.2265

Mercury -40263-03-30 02:09 J -12984549.53 -12984549.41 -12984549.30 0.2671 0.1145

Mercury -40260-10-08 08:09 J -12983261.27 -12983261.16 -12983261.06 0.2666 0.1336

Mercury -40253-09-30 21:21 J -12980711.72 -12980711.61 -12980711.50 0.2661 0.1290

Mercury -40250-04-02 00:57 J -12979798.59 -12979798.46 -12979798.33 0.2669 0.0123

Mercury -40247-10-11 04:47 J -12978510.36 -12978510.30 -12978510.23 0.2667 0.2210

Mercury -40240-10-03 18:57 J -12975960.83 -12975960.71 -12975960.58 0.2663 0.0337

Mercury -40237-04-04 00:14 J -12975047.61 -12975047.49 -12975047.37 0.2667 0.0935

Mercury -40230-03-28 08:52 J -12972498.22 -12972498.13 -12972498.04 0.2672 0.1958

Mercury -40227-10-06 16:18 J -12971209.94 -12971209.82 -12971209.70 0.2664 0.0594

Mercury -40224-04-06 23:45 J -12970296.59 -12970296.51 -12970296.42 0.2666 0.2025

Mercury -40220-09-29 05:02 J -12968660.37 -12968660.29 -12968660.21 0.2660 0.2090

Mercury -40217-03-30 07:26 J -12967747.31 -12967747.19 -12967747.06 0.2670 0.0969

Mercury -40214-10-09 13:11 J -12966459.05 -12966458.95 -12966458.85 0.2666 0.1489

Mercury -40207-10-02 02:52 J -12963909.50 -12963909.38 -12963909.27 0.2662 0.1116

Mercury -40204-04-02 06:28 J -12962996.36 -12962996.23 -12962996.10 0.2669 0.0082

Mercury -40201-10-11 10:04 J -12961708.13 -12961708.08 -12961708.03 0.2668 0.2363

Mercury -40194-10-05 00:14 J -12959158.61 -12959158.49 -12959158.36 0.2663 0.0179

Mercury -40191-04-05 05:45 J -12958245.38 -12958245.26 -12958245.14 0.2667 0.1123

Venus -40190-10-16 01:26 J -12957686.60 -12957686.44 -12957686.29 0.2670 0.0948

Mercury -40184-03-28 14:23 J -12955696.00 -12955695.90 -12955695.81 0.2672 0.1784

Mercury -40181-10-06 21:35 J -12954407.72 -12954407.60 -12954407.48 0.2665 0.0754

Mercury -40178-04-08 05:30 J -12953494.35 -12953494.27 -12953494.20 0.2665 0.2214

Mercury -40174-09-30 10:18 J -12951858.15 -12951858.07 -12951857.98 0.2660 0.1917

Mercury -40171-03-31 12:57 J -12950945.08 -12950944.96 -12950944.83 0.2670 0.0787

Mercury -40168-10-09 18:28 J -12949656.82 -12949656.73 -12949656.63 0.2666 0.1649

Mercury -40161-10-02 08:09 J -12947107.28 -12947107.16 -12947107.04 0.2662 0.0948

Mercury -40158-04-03 11:59 J -12946194.13 -12946194.00 -12946193.87 0.2668 0.0248

Mercury -40155-10-12 15:21 J -12944905.90 -12944905.86 -12944905.83 0.2668 0.2519

Mercury -40151-03-26 21:21 J -12943644.64 -12943644.61 -12943644.58 0.2673 0.2579

Mercury -40148-10-05 05:45 J -12942356.39 -12942356.26 -12942356.14 0.2663 0.0094

Mercury -40145-04-05 11:30 J -12941443.14 -12941443.02 -12941442.91 0.2667 0.1314

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Mercury -40135-10-08 02:52 J -12937605.50 -12937605.38 -12937605.26 0.2665 0.0916

Mercury -40132-04-08 11:02 J -12936692.09 -12936692.04 -12936691.98 0.2665 0.2413

Mercury -40128-09-30 15:50 J -12935055.94 -12935055.84 -12935055.75 0.2661 0.1745

Mercury -40125-03-31 18:28 J -12934142.85 -12934142.73 -12934142.60 0.2670 0.0610

Mercury -40122-10-10 23:45 J -12932854.60 -12932854.51 -12932854.42 0.2667 0.1805

Mercury -40115-10-03 13:26 J -12930305.06 -12930304.94 -12930304.82 0.2662 0.0778

Mercury -40112-04-03 17:45 J -12929391.90 -12929391.76 -12929391.63 0.2668 0.0443

Mercury -40105-03-27 02:52 J -12926842.43 -12926842.38 -12926842.33 0.2673 0.2405

Mercury -40102-10-06 11:02 J -12925554.17 -12925554.04 -12925553.92 0.2664 0.0188

Mercury -40099-04-06 17:02 J -12924640.90 -12924640.79 -12924640.68 0.2666 0.1500

Mercury -40095-09-28 23:16 J -12923004.56 -12923004.53 -12923004.50 0.2659 0.2560

Mercury -40092-03-30 01:26 J -12922091.55 -12922091.44 -12922091.33 0.2671 0.1431

Mercury -40089-10-08 08:09 J -12920803.27 -12920803.16 -12920803.05 0.2665 0.1077

Mercury -40086-04-09 16:47 J -12919889.83 -12919889.80 -12919889.78 0.2665 0.2603

Venus -40084-04-15 05:02 J -12919153.32 -12919153.29 -12919153.26 0.2661 0.2600

Mercury -40082-10-01 21:06 J -12918253.72 -12918253.62 -12918253.52 0.2661 0.1572

Mercury -40079-04-01 23:59 J -12917340.63 -12917340.50 -12917340.37 0.2670 0.0432

Venus -40076-04-12 22:33 J -12916233.71 -12916233.56 -12916233.41 0.2663 0.0742

Mercury -40076-10-11 05:02 J -12916052.37 -12916052.29 -12916052.21 0.2667 0.1965

Mercury -40069-10-03 18:42 J -12913502.84 -12913502.72 -12913502.59 0.2662 0.0619

Mercury -40066-04-04 23:16 J -12912589.66 -12912589.53 -12912589.40 0.2668 0.0621

Mercury -40059-03-28 08:09 J -12910040.22 -12910040.16 -12910040.09 0.2673 0.2238

Mercury -40056-10-06 16:18 J -12908751.95 -12908751.82 -12908751.70 0.2664 0.0334

Mercury -40053-04-06 22:33 J -12907838.66 -12907838.56 -12907838.45 0.2666 0.1696

Mercury -40049-09-29 04:33 J -12906202.36 -12906202.31 -12906202.25 0.2660 0.2385

Mercury -40046-03-31 06:42 J -12905289.33 -12905289.22 -12905289.10 0.2671 0.1256

Mercury -40043-10-09 13:26 J -12904001.05 -12904000.94 -12904000.83 0.2666 0.1239

Mercury -40036-10-02 02:38 J -12901451.50 -12901451.39 -12901451.29 0.2661 0.1402

Mercury -40033-04-02 05:45 J -12900538.39 -12900538.26 -12900538.13 0.2669 0.0247

Mercury -40030-10-12 10:18 J -12899250.15 -12899250.07 -12899250.00 0.2667 0.2120

Mercury -40023-10-05 00:14 J -12896700.62 -12896700.49 -12896700.37 0.2663 0.0444

Mercury -40020-04-05 04:47 J -12895787.43 -12895787.30 -12895787.17 0.2668 0.0808

Mercury -40013-03-28 13:40 J -12893238.01 -12893237.93 -12893237.85 0.2672 0.2064

Mercury -40010-10-07 21:35 J -12891949.73 -12891949.60 -12891949.48 0.2664 0.0493

Mercury -40007-04-08 04:18 J -12891036.42 -12891036.32 -12891036.23 0.2666 0.1884

Mercury -40003-09-30 10:04 J -12889400.15 -12889400.08 -12889400.01 0.2660 0.2209

40TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 40th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-40000-03-31 12:14 J	-12888487.11	-12888486.99	-12888486.87	0.2670	0.1078		
Mercury	-39997-10-09 18:42 J	-12887198.83	-12887198.72	-12887198.62	0.2666	0.1398		
Mercury	-39990-10-03 07:54 J	-12884649.28	-12884649.17	-12884649.06	0.2661	0.1230		
Mercury	-39987-04-03 11:16 J	-12883736.17	-12883736.03	-12883735.90	0.2669	0.0109		
Mercury	-39984-10-12 15:21 J	-12882447.92	-12882447.86	-12882447.79	0.2668	0.2278		
Mercury	-39977-10-05 05:30 J	-12879898.40	-12879898.27	-12879898.14	0.2663	0.0275		
Mercury	-39974-04-06 10:18 J	-12878985.19	-12878985.07	-12878984.94	0.2667	0.0995		
Mercury	-39967-03-29 19:11 J	-12876435.79	-12876435.70	-12876435.61	0.2672	0.1892		
Mercury	-39964-10-08 02:52 J	-12875147.50	-12875147.38	-12875147.26	0.2664	0.0656		
Mercury	-39961-04-08 09:50 J	-12874234.17	-12874234.09	-12874234.00	0.2666	0.2086		
Mercury	-39957-09-30 15:21 J	-12872597.94	-12872597.86	-12872597.77	0.2660	0.2037		
Mercury	-39954-04-01 17:45 J	-12871684.88	-12871684.76	-12871684.64	0.2670	0.0899		

Mercury -39951-10-10 23:45 J -12870396.61 -12870396.51 -12870396.41 0.2666 0.1556

Venus -39947-10-16 00:28 J -12868930.63 -12868930.48 -12868930.33 0.2669 0.0946

Mercury -39944-10-03 13:11 J -12867847.06 -12867846.95 -12867846.83 0.2662 0.1060

Mercury -39941-04-03 16:47 J -12866933.93 -12866933.80 -12866933.67 0.2669 0.0135

Mercury -39938-10-13 20:38 J -12865645.69 -12865645.64 -12865645.59 0.2668 0.2430

Mercury -39931-10-06 10:47 J -12863096.18 -12863096.05 -12863095.92 0.2663 0.0108

Mercury -39928-04-06 16:04 J -12862182.95 -12862182.83 -12862182.72 0.2667 0.1188

Mercury -39921-03-30 00:42 J -12859633.57 -12859633.47 -12859633.37 0.2672 0.1717

Mercury -39918-10-09 08:09 J -12858345.28 -12858345.16 -12858345.04 0.2665 0.0816

Mercury -39915-04-09 15:35 J -12857431.92 -12857431.85 -12857431.78 0.2665 0.2272

Mercury -39911-10-01 20:52 J -12855795.72 -12855795.63 -12855795.54 0.2660 0.1859

Mercury -39908-04-01 23:16 J -12854882.65 -12854882.53 -12854882.40 0.2670 0.0722

Mercury -39905-10-11 05:02 J -12853594.38 -12853594.29 -12853594.19 0.2666 0.1717

Mercury -39898-10-04 18:42 J -12851044.84 -12851044.72 -12851044.60 0.2662 0.0889

Mercury -39895-04-04 22:18 J -12850131.70 -12850131.57 -12850131.44 0.2668 0.0314

Mercury -39892-10-14 01:54 J -12848843.45 -12848843.42 -12848843.39 0.2668 0.2585

Mercury -39888-03-28 07:40 J -12847582.22 -12847582.18 -12847582.14 0.2673 0.2513

Mercury -39885-10-06 16:04 J -12846293.95 -12846293.83 -12846293.70 0.2663 0.0094

Mercury -39882-04-07 21:35 J -12845380.71 -12845380.60 -12845380.49 0.2667 0.1374

Mercury -39875-03-31 05:59 J -12842831.35 -12842831.25 -12842831.14 0.2671 0.1546

Mercury -39872-10-09 13:26 J -12841543.06 -12841542.94 -12841542.83 0.2665 0.0981

Mercury -39869-04-09 21:06 J -12840629.66 -12840629.62 -12840629.57 0.2665 0.2473

Mercury -39865-10-02 02:09 J -12838993.50 -12838993.41 -12838993.31 0.2661 0.1687

Mercury -39862-04-03 04:47 J -12838080.43 -12838080.30 -12838080.17 0.2670 0.0541

Mercury -39859-10-12 10:18 J -12836792.16 -12836792.07 -12836791.98 0.2667 0.1870

Mercury -39852-10-04 23:59 J -12834242.62 -12834242.50 -12834242.38 0.2662 0.0716

Mercury -39849-04-05 03:50 J -12833329.47 -12833329.34 -12833329.21 0.2668 0.0495

Mercury -39842-03-29 13:11 J -12830780.01 -12830779.95 -12830779.89 0.2673 0.2338

Mercury -39839-10-07 21:21 J -12829491.73 -12829491.61 -12829491.48 0.2664 0.0242

Mercury -39836-04-08 03:06 J -12828578.48 -12828578.37 -12828578.26 0.2666 0.1562

Venus -39833-04-13 01:54 J -12827477.57 -12827477.42 -12827477.26 0.2663 0.0470

Mercury -39832-09-30 09:35 J -12826942.14 -12826942.10 -12826942.06 0.2659 0.2505

Mercury -39829-03-31 11:30 J -12826029.13 -12826029.02 -12826028.91 0.2671 0.1369

Mercury -39826-10-10 18:42 J -12824740.83 -12824740.72 -12824740.61 0.2665 0.1140

Mercury -39823-04-11 02:52 J -12823827.38 -12823827.38 -12823827.38 0.2665 0.2665

Mercury -39819-10-03 07:40 J -12822191.29 -12822191.18 -12822191.08 0.2661 0.1513

Mercury -39816-04-03 10:18 J -12821278.20 -12821278.07 -12821277.94 0.2669 0.0362

Mercury -39813-10-12 15:35 J -12819989.93 -12819989.85 -12819989.77 0.2667 0.2032

Mercury -39806-10-06 05:16 J -12817440.40 -12817440.28 -12817440.15 0.2662 0.0552

Mercury -39803-04-06 09:21 J -12816527.24 -12816527.11 -12816526.98 0.2668 0.0678

Mercury -39796-03-29 18:42 J -12813977.80 -12813977.72 -12813977.65 0.2673 0.2173

Mercury -39793-10-08 02:52 J -12812689.51 -12812689.38 -12812689.26 0.2664 0.0399

Mercury -39790-04-09 08:52 J -12811776.23 -12811776.13 -12811776.03 0.2666 0.1757

Mercury -39786-10-01 15:06 J -12810139.93 -12810139.87 -12810139.81 0.2660 0.2329

Mercury -39783-04-01 17:02 J -12809226.90 -12809226.79 -12809226.67 0.2671 0.1189

Mercury -39780-10-10 23:59 J -12807938.61 -12807938.50 -12807938.39 0.2666 0.1303

Mercury -39773-10-03 12:57 J -12805389.07 -12805388.96 -12805388.85 0.2661 0.1343

Mercury -39770-04-04 15:50 J -12804475.97 -12804475.84 -12804475.71 0.2669 0.0180

Mercury -39767-10-13 20:52 J -12803187.70 -12803187.63 -12803187.56 0.2667 0.2186

Mercury -39760-10-06 10:33 J -12800638.18 -12800638.06 -12800637.93 0.2663 0.0390

Mercury -39757-04-06 14:52 J -12799725.00 -12799724.88 -12799724.75 0.2667 0.0869

Mercury -39750-03-30 23:59 J -12797175.58 -12797175.50 -12797175.41 0.2672 0.1996

Mercury -39747-10-09 08:09 J -12795887.29 -12795887.16 -12795887.04 0.2664 0.0560

Mercury -39744-04-09 14:23 J -12794973.99 -12794973.90 -12794973.81 0.2666 0.1944

Mercury -39740-10-01 20:23 J -12793337.72 -12793337.65 -12793337.57 0.2660 0.2154

Mercury -39737-04-01 22:33 J -12792424.68 -12792424.56 -12792424.44 0.2671 0.1013

Mercury -39734-10-12 05:16 J -12791136.39 -12791136.28 -12791136.18 0.2666 0.1464

Mercury -39727-10-04 18:28 J -12788586.85 -12788586.73 -12788586.62 0.2661 0.1173

Mercury -39724-04-04 21:21 J -12787673.74 -12787673.61 -12787673.48 0.2669 0.0022

Mercury -39721-10-14 02:09 J -12786385.47 -12786385.41 -12786385.36 0.2668 0.2345

Mercury -39714-10-07 16:04 J -12783835.96 -12783835.83 -12783835.71 0.2663 0.0223

Mercury -39711-04-07 20:38 J -12782922.77 -12782922.64 -12782922.52 0.2667 0.1059

Mercury -39704-03-31 05:30 J -12780373.36 -12780373.27 -12780373.18 0.2672 0.1827

Venus -39704-10-15 23:16 J -12780174.68 -12780174.53 -12780174.38 0.2668 0.1003

Mercury -39701-10-09 13:26 J -12779085.06 -12779084.94 -12779084.82 0.2665 0.0723

Mercury -39698-04-10 20:09 J -12778171.74 -12778171.66 -12778171.59 0.2666 0.2142

Mercury -39694-10-03 01:54 J -12776535.51 -12776535.42 -12776535.34 0.2660 0.1976

Mercury -39691-04-03 04:04 J -12775622.46 -12775622.33 -12775622.21 0.2670 0.0834

Mercury -39688-10-12 10:33 J -12774334.16 -12774334.06 -12774333.97 0.2666 0.1624

Mercury -39681-10-04 23:45 J -12771784.63 -12771784.51 -12771784.39 0.2662 0.0999

Mercury -39678-04-06 02:52 J -12770871.51 -12770871.38 -12770871.25 0.2669 0.0203

Mercury -39675-10-15 07:26 J -12769583.23 -12769583.19 -12769583.15 0.2668 0.2500

Mercury -39671-03-29 12:42 J -12768322.00 -12768321.97 -12768321.95 0.2673 0.2613

Mercury -39668-10-07 21:21 J -12767033.74 -12767033.61 -12767033.49 0.2663 0.0061

Mercury -39665-04-08 02:09 J -12766120.53 -12766120.41 -12766120.29 0.2667 0.1246

Mercury -39658-04-01 11:02 J -12763571.14 -12763571.04 -12763570.94 0.2672 0.1652

Mercury -39655-10-10 18:42 J -12762282.84 -12762282.72 -12762282.61 0.2665 0.0882

Mercury -39652-04-11 01:40 J -12761369.49 -12761369.43 -12761369.37 0.2665 0.2334

Mercury -39648-10-03 07:11 J -12759733.29 -12759733.20 -12759733.10 0.2660 0.1804

Mercury -39645-04-03 09:35 J -12758820.23 -12758820.10 -12758819.98 0.2670 0.0658

Mercury -39642-10-13 15:50 J -12757531.94 -12757531.84 -12757531.75 0.2666 0.1783

Mercury -39635-10-06 05:02 J -12754982.41 -12754982.29 -12754982.17 0.2662 0.0830

Mercury -39632-04-06 08:23 J -12754069.28 -12754069.15 -12754069.02 0.2668 0.0375

Mercury -39629-10-15 12:28 J -12752780.99 -12752780.98 -12752780.97 0.2668 0.2655

Mercury -39625-03-29 17:59 J -12751519.80 -12751519.75 -12751519.70 0.2673 0.2448

Mercury -39622-10-09 02:38 J -12750231.52 -12750231.39 -12750231.26 0.2664 0.0121

Mercury -39619-04-09 07:40 J -12749318.29 -12749318.18 -12749318.07 0.2667 0.1438

Mercury -39615-10-01 14:38 J -12747681.91 -12747681.89 -12747681.87 0.2659 0.2625

Mercury -39612-04-01 16:18 J -12746768.92 -12746768.82 -12746768.71 0.2671 0.1479

Mercury -39609-10-10 23:59 J -12745480.62 -12745480.50 -12745480.39 0.2665 0.1045

Mercury -39606-04-12 07:26 J -12744567.23 -12744567.19 -12744567.16 0.2665 0.2532

Mercury -39602-10-04 12:42 J -12742931.07 -12742930.97 -12742930.87 0.2661 0.1627

Mercury -39599-04-04 15:06 J -12742018.00 -12742017.87 -12742017.74 0.2670 0.0475

Mercury -39596-10-13 20:52 J -12740729.71 -12740729.63 -12740729.54 0.2667 0.1939

Venus -39590-04-14 05:16 J -12738721.43 -12738721.28 -12738721.12 0.2664 0.0231

Mercury -39589-10-06 10:33 J -12738180.19 -12738180.06 -12738179.94 0.2662 0.0662

Mercury -39586-04-07 13:54 J -12737267.04 -12737266.92 -12737266.79 0.2668 0.0567

Mercury -39579-03-30 23:30 J -12734717.59 -12734717.52 -12734717.46 0.2673 0.2274

Mercury -39576-10-09 07:54 J -12733429.29 -12733429.17 -12733429.04 0.2664 0.0289

Mercury -39573-04-09 13:11 J -12732516.05 -12732515.95 -12732515.84 0.2666 0.1628

Mercury -39569-10-01 20:09 J -12730879.71 -12730879.66 -12730879.62 0.2659 0.2449

Mercury -39566-04-02 21:50 J -12729966.70 -12729966.59 -12729966.48 0.2671 0.1303

Mercury -39563-10-12 05:16 J -12728678.39 -12728678.28 -12728678.17 0.2665 0.1206

Mercury -39556-10-04 17:59 J -12726128.85 -12726128.75 -12726128.64 0.2661 0.1455

Mercury -39553-04-04 20:38 J -12725215.77 -12725215.64 -12725215.51 0.2669 0.0306

Mercury -39550-10-15 02:09 J -12723927.48 -12723927.41 -12723927.33 0.2667 0.2098

Mercury -39543-10-07 15:50 J -12721377.97 -12721377.84 -12721377.72 0.2662 0.0488

Mercury -39540-04-07 19:40 J -12720464.81 -12720464.68 -12720464.56 0.2668 0.0749

Mercury -39533-03-31 04:47 J -12717915.37 -12717915.30 -12717915.22 0.2673 0.2108

Mercury -39530-10-10 13:11 J -12716627.07 -12716626.95 -12716626.82 0.2664 0.0461

Mercury -39527-04-10 18:57 J -12715713.81 -12715713.71 -12715713.61 0.2666 0.1816

Mercury -39523-10-03 01:26 J -12714077.50 -12714077.44 -12714077.37 0.2660 0.2270

Mercury -39520-04-03 03:21 J -12713164.48 -12713164.36 -12713164.24 0.2671 0.1127

Mercury -39517-10-12 10:33 J -12711876.17 -12711876.06 -12711875.96 0.2666 0.1369

Mercury -39510-10-05 23:30 J -12709326.63 -12709326.52 -12709326.41 0.2661 0.1282

Mercury -39507-04-06 02:09 J -12708413.54 -12708413.41 -12708413.28 0.2669 0.0127

Mercury -39504-10-15 07:26 J -12707125.25 -12707125.19 -12707125.13 0.2667 0.2252

Mercury -39497-10-07 21:06 J -12704575.74 -12704575.62 -12704575.49 0.2663 0.0319

Mercury -39494-04-09 01:11 J -12703662.58 -12703662.45 -12703662.33 0.2667 0.0931

Mercury -39487-04-01 10:18 J -12701113.15 -12701113.07 -12701112.98 0.2672 0.1930

Mercury -39484-10-10 18:28 J -12699824.85 -12699824.73 -12699824.60 0.2664 0.0625

Mercury -39481-04-11 00:28 J -12698911.57 -12698911.48 -12698911.39 0.2666 0.2006

Mercury -39477-10-03 06:57 J -12697275.29 -12697275.21 -12697275.14 0.2660 0.2098

Mercury -39474-04-04 08:52 J -12696362.25 -12696362.13 -12696362.01 0.2671 0.0948

Mercury -39471-10-13 15:50 J -12695073.94 -12695073.84 -12695073.74 0.2666 0.1528

Mercury -39464-10-06 04:47 J -12692524.41 -12692524.30 -12692524.18 0.2661 0.1110

Mercury -39461-04-06 07:40 J -12691611.32 -12691611.18 -12691611.05 0.2669 0.0105

Venus -39461-10-15 22:04 J -12691418.73 -12691418.58 -12691418.43 0.2668 0.1037

Mercury -39458-10-16 12:42 J -12690323.02 -12690322.97 -12690322.92 0.2668 0.2413

Mercury -39451-10-09 02:23 J -12687773.52 -12687773.40 -12687773.27 0.2663 0.0175

Mercury -39448-04-09 06:42 J -12686860.34 -12686860.22 -12686860.10 0.2667 0.1118

Mercury -39441-04-01 15:50 J -12684310.94 -12684310.84 -12684310.75 0.2672 0.1759

Mercury -39438-10-11 23:59 J -12683022.62 -12683022.50 -12683022.38 0.2665 0.0787

Mercury -39435-04-12 06:14 J -12682109.32 -12682109.24 -12682109.17 0.2665 0.2201

Mercury -39431-10-04 12:14 J -12680473.08 -12680472.99 -12680472.90 0.2660 0.1921

Mercury -39428-04-04 14:23 J -12679560.03 -12679559.90 -12679559.78 0.2670 0.0765

Mercury -39425-10-13 21:06 J -12678271.72 -12678271.62 -12678271.53 0.2666 0.1691

Mercury -39418-10-07 10:04 J -12675722.19 -12675722.08 -12675721.96 0.2662 0.0943

Mercury -39415-04-07 13:11 J -12674809.08 -12674808.95 -12674808.82 0.2669 0.0255

Mercury -39412-10-16 17:59 J -12673520.78 -12673520.75 -12673520.72 0.2668 0.2567

Mercury -39408-03-30 23:02 J -12672259.58 -12672259.54 -12672259.51 0.2673 0.2546

Mercury -39405-10-09 07:54 J -12670971.30 -12670971.17 -12670971.05 0.2663 0.0085

Mercury -39402-04-10 12:14 J -12670058.10 -12670057.99 -12670057.87 0.2667 0.1307

Mercury -39395-04-02 21:21 J -12667508.72 -12667508.61 -12667508.51 0.2672 0.1582

Mercury -39392-10-12 05:16 J -12666220.40 -12666220.28 -12666220.17 0.2665 0.0949

Mercury -39389-04-12 11:45 J -12665307.07 -12665307.01 -12665306.96 0.2665 0.2391

Mercury -39385-10-04 17:45 J -12663670.86 -12663670.76 -12663670.67 0.2660 0.1748

Mercury -39382-04-05 19:54 J -12662757.80 -12662757.67 -12662757.55 0.2670 0.0595

Mercury -39379-10-15 02:23 J -12661469.49 -12661469.40 -12661469.32 0.2667 0.1851

Mercury -39372-10-07 15:35 J -12658919.97 -12658919.85 -12658919.73 0.2662 0.0769

Mercury -39369-04-07 18:42 J -12658006.85 -12658006.72 -12658006.59 0.2668 0.0441

Mercury -39362-04-01 04:18 J -12655457.37 -12655457.32 -12655457.26 0.2673 0.2380

Mercury -39359-10-10 13:11 J -12654169.08 -12654168.95 -12654168.83 0.2664 0.0186

Mercury -39356-04-10 17:59 J -12653255.86 -12653255.75 -12653255.64 0.2667 0.1500

Mercury -39352-10-03 00:57 J -12651619.49 -12651619.46 -12651619.43 0.2659 0.2570

Mercury -39349-04-03 02:38 J -12650706.50 -12650706.39 -12650706.28 0.2671 0.1413

Venus -39347-04-14 09:06 J -12649965.28 -12649965.12 -12649964.97 0.2665 0.0070

Mercury -39346-10-13 10:33 J -12649418.18 -12649418.06 -12649417.95 0.2665 0.1112

Mercury -39343-04-13 17:30 J -12648504.80 -12648504.77 -12648504.75 0.2665 0.2591

Mercury -39339-10-05 23:02 J -12646868.64 -12646868.54 -12646868.43 0.2661 0.1569

Mercury -39336-04-06 01:26 J -12645955.57 -12645955.44 -12645955.31 0.2670 0.0414

Mercury -39333-10-15 07:26 J -12644667.27 -12644667.19 -12644667.11 0.2667 0.2008

Mercury -39326-10-08 20:52 J -12642117.75 -12642117.63 -12642117.50 0.2662 0.0598

Mercury -39323-04-09 00:14 J -12641204.62 -12641204.49 -12641204.36 0.2668 0.0623

Mercury -39316-04-01 09:50 J -12638655.16 -12638655.09 -12638655.02 0.2673 0.2206

Mercury -39313-10-10 18:28 J -12637366.86 -12637366.73 -12637366.61 0.2664 0.0352

Mercury -39310-04-11 23:30 J -12636453.62 -12636453.52 -12636453.42 0.2666 0.1688

Mercury -39306-10-04 06:28 J -12634817.29 -12634817.23 -12634817.18 0.2659 0.2392

Mercury -39303-04-04 08:09 J -12633904.27 -12633904.16 -12633904.04 0.2671 0.1234

Mercury -39300-10-13 15:50 J -12632615.95 -12632615.84 -12632615.73 0.2665 0.1272

Mercury -39293-10-06 04:33 J -12630066.42 -12630066.31 -12630066.20 0.2661 0.1397

Mercury -39290-04-07 06:42 J -12629153.35 -12629153.22 -12629153.09 0.2669 0.0242

Mercury -39287-10-16 12:42 J -12627865.04 -12627864.97 -12627864.90 0.2667 0.2167

Mercury -39280-10-09 02:23 J -12625315.53 -12625315.40 -12625315.28 0.2663 0.0430

Mercury -39277-04-09 05:45 J -12624402.39 -12624402.26 -12624402.14 0.2668 0.0809

Mercury -39270-04-02 15:06 J -12621852.95 -12621852.87 -12621852.78 0.2672 0.2042

Mercury -39267-10-11 23:45 J -12620564.63 -12620564.51 -12620564.38 0.2664 0.0519

Mercury -39264-04-12 05:02 J -12619651.38 -12619651.29 -12619651.20 0.2666 0.1881

Mercury -39260-10-04 11:45 J -12618015.08 -12618015.01 -12618014.94 0.2660 0.2216

Mercury -39257-04-04 13:40 J -12617102.05 -12617101.93 -12617101.81 0.2671 0.1057

Mercury -39254-10-14 21:06 J -12615813.73 -12615813.62 -12615813.52 0.2666 0.1436

Mercury -39247-10-07 09:50 J -12613264.20 -12613264.09 -12613263.97 0.2661 0.1221

Mercury -39244-04-07 12:14 J -12612351.12 -12612350.99 -12612350.85 0.2669 0.0099

Mercury -39241-10-16 17:59 J -12611062.81 -12611062.75 -12611062.69 0.2667 0.2322

Mercury -39234-10-10 07:40 J -12608513.31 -12608513.18 -12608513.06 0.2663 0.0257

Mercury -39231-04-10 11:16 J -12607600.15 -12607600.03 -12607599.91 0.2667 0.0994

Mercury -39224-04-02 20:38 J -12605050.73 -12605050.64 -12605050.55 0.2672 0.1863

Mercury -39221-10-12 05:02 J -12603762.41 -12603762.29 -12603762.17 0.2664 0.0687

Mercury -39218-04-13 10:33 J -12602849.14 -12602849.06 -12602848.97 0.2666 0.2071

Venus -39218-10-16 20:52 J -12602662.78 -12602662.63 -12602662.48 0.2667 0.1078

Mercury -39214-10-05 17:16 J -12601212.86 -12601212.78 -12601212.70 0.2660 0.2038

Mercury -39211-04-05 19:11 J -12600299.83 -12600299.70 -12600299.58 0.2670 0.0885

Mercury -39208-10-15 02:23 J -12599011.50 -12599011.40 -12599011.30 0.2666 0.1597

Mercury -39201-10-07 15:21 J -12596461.98 -12596461.86 -12596461.75 0.2661 0.1052

Mercury -39198-04-08 17:45 J -12595548.89 -12595548.76 -12595548.63 0.2669 0.0140

Mercury -39195-10-17 23:16 J -12594260.57 -12594260.53 -12594260.49 0.2668 0.2482

Mercury -39191-04-01 04:04 J -12592999.35 -12592999.33 -12592999.32 0.2674 0.2645

Mercury -39188-10-10 12:57 J -12591711.08 -12591710.96 -12591710.83 0.2663 0.0094

Mercury -39185-04-10 16:47 J -12590797.91 -12590797.80 -12590797.68 0.2667 0.1188

Mercury -39178-04-04 02:09 J -12588248.51 -12588248.41 -12588248.31 0.2672 0.1692

Mercury -39175-10-13 10:18 J -12586960.18 -12586960.07 -12586959.95 0.2665 0.0853

Mercury -39172-04-13 16:18 J -12586046.89 -12586046.82 -12586046.75 0.2665 0.2264

Mercury -39168-10-05 22:47 J -12584410.64 -12584410.55 -12584410.46 0.2660 0.1861

Mercury -39165-04-06 00:42 J -12583497.60 -12583497.47 -12583497.35 0.2670 0.0707

Mercury -39162-10-16 07:40 J -12582209.28 -12582209.18 -12582209.09 0.2666 0.1759

Mercury -39155-10-08 20:38 J -12579659.76 -12579659.64 -12579659.52 0.2662 0.0875

Mercury -39152-04-08 23:16 J -12578746.66 -12578746.53 -12578746.40 0.2668 0.0326

Mercury -39149-10-18 04:33 J -12577458.32 -12577458.31 -12577458.30 0.2668 0.2638

Mercury -39145-04-01 09:21 J -12576197.15 -12576197.11 -12576197.06 0.2673 0.2477

Mercury -39142-10-11 18:14 J -12574908.86 -12574908.74 -12574908.61 0.2663 0.0102

Mercury -39139-04-11 22:18 J -12573995.68 -12573995.57 -12573995.45 0.2667 0.1373

Mercury -39132-04-04 07:40 J -12571446.29 -12571446.18 -12571446.08 0.2672 0.1513

Mercury -39129-10-13 15:35 J -12570157.96 -12570157.85 -12570157.73 0.2665 0.1018

Mercury -39126-04-14 21:50 J -12569244.64 -12569244.59 -12569244.54 0.2665 0.2459

Mercury -39122-10-07 04:04 J -12567608.43 -12567608.33 -12567608.23 0.2660 0.1687

Mercury -39119-04-07 05:59 J -12566695.37 -12566695.25 -12566695.12 0.2670 0.0530

Mercury -39116-10-16 12:57 J -12565407.05 -12565406.96 -12565406.88 0.2667 0.1919

Mercury -39109-10-09 02:09 J -12562857.54 -12562857.41 -12562857.29 0.2662 0.0709

Mercury -39106-04-10 04:47 J -12561944.43 -12561944.30 -12561944.17 0.2668 0.0507

Venus -39104-04-14 12:28 J -12561209.13 -12561208.98 -12561208.82 0.2665 0.0322

Mercury -39099-04-02 14:52 J -12559394.95 -12559394.88 -12559394.82 0.2673 0.2309

Mercury -39096-10-11 23:45 J -12558106.64 -12558106.51 -12558106.39 0.2664 0.0263

Mercury -39093-04-12 04:04 J -12557193.44 -12557193.33 -12557193.22 0.2667 0.1563

Mercury -39089-10-04 11:16 J -12555557.07 -12555557.03 -12555556.99 0.2659 0.2517

Mercury -39086-04-05 12:57 J -12554644.07 -12554643.96 -12554643.84 0.2671 0.1344

Mercury -39083-10-14 21:06 J -12553355.74 -12553355.62 -12553355.51 0.2665 0.1181

Mercury -39080-04-15 03:35 J -12552442.36 -12552442.35 -12552442.34 0.2665 0.2651

Mercury -39076-10-07 09:35 J -12550806.21 -12550806.10 -12550806.00 0.2661 0.1510

Mercury -39073-04-07 11:30 J -12549893.15 -12549893.02 -12549892.89 0.2670 0.0350

Mercury -39070-10-17 17:59 J -12548604.82 -12548604.75 -12548604.67 0.2667 0.2081

Mercury -39063-10-10 07:26 J -12546055.32 -12546055.19 -12546055.07 0.2662 0.0537

Mercury -39060-04-10 10:33 J -12545142.19 -12545142.06 -12545141.94 0.2668 0.0694

Mercury -39053-04-02 20:09 J -12542592.73 -12542592.66 -12542592.58 0.2673 0.2138

Mercury -39050-10-13 05:02 J -12541304.42 -12541304.29 -12541304.17 0.2664 0.0420

Mercury -39047-04-13 09:35 J -12540391.20 -12540391.10 -12540391.00 0.2666 0.1753

Mercury -39043-10-05 16:47 J -12538754.86 -12538754.80 -12538754.74 0.2659 0.2334

Mercury -39040-04-05 18:28 J -12537841.84 -12537841.73 -12537841.61 0.2671 0.1166

Mercury -39037-10-15 02:23 J -12536553.51 -12536553.40 -12536553.30 0.2665 0.1343

Mercury -39030-10-08 14:52 J -12534003.99 -12534003.88 -12534003.77 0.2661 0.1337

Mercury -39027-04-08 17:02 J -12533090.92 -12533090.79 -12533090.66 0.2669 0.0165

Mercury -39024-10-17 23:16 J -12531802.59 -12531802.53 -12531802.46 0.2667 0.2239

Mercury -39017-10-10 12:42 J -12529253.10 -12529252.97 -12529252.84 0.2663 0.0363

Mercury -39014-04-11 16:04 J -12528339.96 -12528339.83 -12528339.71 0.2668 0.0880

Mercury -39007-04-04 01:40 J -12525790.52 -12525790.43 -12525790.35 0.2672 0.1970

Mercury -39004-10-13 10:18 J -12524502.19 -12524502.07 -12524501.95 0.2664 0.0584

Mercury -39001-04-13 15:21 J -12523588.95 -12523588.86 -12523588.77 0.2666 0.1947

39TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 39th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-38997-10-05 22:18 J	-12521952.65	-12521952.57	-12521952.50	0.2660	0.2155		
Mercury	-38994-04-06 23:59 J	-12521039.62	-12521039.50	-12521039.38	0.2671	0.0993		
Mercury	-38991-10-16 07:40 J	-12519751.29	-12519751.18	-12519751.08	0.2666	0.1505		
Mercury	-38984-10-08 20:23 J	-12517201.77	-12517201.65	-12517201.54	0.2661	0.1159		
Mercury	-38981-04-08 22:33 J	-12516288.69	-12516288.56	-12516288.43	0.2669	0.0049		
Mercury	-38978-10-19 04:33 J	-12515000.36	-12515000.31	-12515000.25	0.2667	0.2396		
Venus	-38975-10-16 19:11 J	-12513906.84	-12513906.70	-12513906.55	0.2666	0.1141		
Mercury	-38971-10-11 17:59 J	-12512450.87	-12512450.75	-12512450.62	0.2663	0.0207		
Mercury	-38968-04-11 21:35 J	-12511537.72	-12511537.60	-12511537.48	0.2667	0.1062		
Mercury	-38961-04-04 06:57 J	-12508988.30	-12508988.21	-12508988.11	0.2672	0.1798		
Mercury	-38958-10-14 15:35 J	-12507699.97	-12507699.85	-12507699.73	0.2664	0.0750		
Mercury	-38955-04-14 20:52 J	-12506786.71	-12506786.63	-12506786.55	0.2666	0.2139		
Mercury	-38951-10-07 03:35 J	-12505150.43	-12505150.35	-12505150.26	0.2660	0.1979		

Mercury -38948-04-07 05:30 J -12504237.40 -12504237.27 -12504237.15 0.2670 0.0817

Mercury -38945-10-16 12:57 J -12502949.06 -12502948.96 -12502948.87 0.2666 0.1666

Mercury -38938-10-10 01:40 J -12500399.55 -12500399.43 -12500399.31 0.2661 0.0988

Mercury -38935-04-10 04:04 J -12499486.46 -12499486.33 -12499486.20 0.2669 0.0201

Mercury -38932-10-19 09:50 J -12498198.12 -12498198.09 -12498198.06 0.2668 0.2553

Mercury -38928-04-02 14:23 J -12496936.93 -12496936.90 -12496936.87 0.2674 0.2577

Mercury -38925-10-11 23:30 J -12495648.65 -12495648.52 -12495648.39 0.2663 0.0036

Mercury -38922-04-13 03:06 J -12494735.49 -12494735.37 -12494735.25 0.2667 0.1253

Mercury -38915-04-05 12:28 J -12492186.08 -12492185.98 -12492185.88 0.2672 0.1624

Mercury -38912-10-14 20:52 J -12490897.74 -12490897.63 -12490897.51 0.2665 0.0919

Mercury -38909-04-15 02:23 J -12489984.46 -12489984.40 -12489984.33 0.2665 0.2332

Mercury -38905-10-07 09:06 J -12488348.21 -12488348.12 -12488348.03 0.2660 0.1800

Mercury -38902-04-08 10:47 J -12487435.17 -12487435.05 -12487434.92 0.2670 0.0641

Mercury -38899-10-17 18:14 J -12486146.83 -12486146.74 -12486146.65 0.2666 0.1830

Mercury -38892-10-10 07:11 J -12483597.33 -12483597.20 -12483597.08 0.2662 0.0817

Mercury -38889-04-10 09:35 J -12482684.23 -12482684.10 -12482683.97 0.2668 0.0390

Mercury -38882-04-03 19:54 J -12480134.73 -12480134.67 -12480134.62 0.2673 0.2409

Mercury -38879-10-13 04:47 J -12478846.43 -12478846.30 -12478846.17 0.2663 0.0148

Mercury -38876-04-13 08:38 J -12477933.25 -12477933.14 -12477933.03 0.2667 0.1438

Mercury -38872-10-05 16:18 J -12476296.83 -12476296.82 -12476296.81 0.2659 0.2634

Mercury -38869-04-05 17:59 J -12475383.86 -12475383.75 -12475383.64 0.2672 0.1446

Mercury -38866-10-16 02:23 J -12474095.52 -12474095.40 -12474095.29 0.2665 0.1088

Mercury -38863-04-16 07:54 J -12473182.20 -12473182.17 -12473182.13 0.2665 0.2525

Venus -38861-04-14 16:33 J -12472452.96 -12472452.81 -12472452.66 0.2666 0.0614

Mercury -38859-10-08 14:23 J -12471546.00 -12471545.90 -12471545.79 0.2660 0.1628

Mercury -38856-04-08 16:18 J -12470632.95 -12470632.82 -12470632.69 0.2670 0.0458

Venus -38853-04-12 10:33 J -12469533.07 -12469533.06 -12469533.06 0.2667 0.2659

Mercury -38853-10-17 23:30 J -12469344.60 -12469344.52 -12469344.44 0.2667 0.1990

Mercury -38846-10-11 12:28 J -12466795.10 -12466794.98 -12466794.86 0.2662 0.0641

Mercury -38843-04-11 15:06 J -12465882.00 -12465881.87 -12465881.74 0.2668 0.0572

Mercury -38836-04-04 01:11 J -12463332.52 -12463332.45 -12463332.38 0.2673 0.2238

Mercury -38833-10-13 10:04 J -12462044.20 -12462044.08 -12462043.95 0.2664 0.0327

Mercury -38830-04-14 14:09 J -12461131.01 -12461130.91 -12461130.80 0.2666 0.1633

Mercury -38826-10-06 21:50 J -12459494.64 -12459494.59 -12459494.55 0.2659 0.2458

Mercury -38823-04-06 23:16 J -12458581.64 -12458581.53 -12458581.41 0.2671 0.1277

Mercury -38820-10-16 07:26 J -12457293.30 -12457293.19 -12457293.07 0.2665 0.1250

Mercury -38813-10-08 19:54 J -12454743.78 -12454743.67 -12454743.56 0.2661 0.1448

Mercury -38810-04-09 21:50 J -12453830.72 -12453830.59 -12453830.46 0.2670 0.0279

Mercury -38807-10-19 04:47 J -12452542.38 -12452542.30 -12452542.23 0.2667 0.2151

Mercury -38800-10-11 17:45 J -12449992.88 -12449992.76 -12449992.63 0.2662 0.0474

Mercury -38797-04-11 20:38 J -12449079.76 -12449079.64 -12449079.51 0.2668 0.0759

Mercury -38790-04-05 06:42 J -12446530.30 -12446530.22 -12446530.14 0.2673 0.2070

Mercury -38787-10-14 15:21 J -12445241.98 -12445241.86 -12445241.73 0.2664 0.0494

Mercury -38784-04-14 19:40 J -12444328.77 -12444328.68 -12444328.58 0.2666 0.1819

Mercury -38780-10-07 03:06 J -12442692.43 -12442692.37 -12442692.30 0.2659 0.2276

Mercury -38777-04-07 04:47 J -12441779.42 -12441779.30 -12441779.18 0.2671 0.1095

Mercury -38774-10-17 12:57 J -12440491.07 -12440490.96 -12440490.86 0.2666 0.1415

Mercury -38767-10-10 01:26 J -12437941.56 -12437941.44 -12437941.33 0.2661 0.1279

Mercury -38764-04-10 03:21 J -12437028.49 -12437028.36 -12437028.23 0.2669 0.0096

Mercury -38761-10-19 09:50 J -12435740.14 -12435740.09 -12435740.03 0.2667 0.2312

Mercury -38754-10-12 23:16 J -12433190.66 -12433190.53 -12433190.41 0.2663 0.0299

Mercury -38751-04-13 02:09 J -12432277.53 -12432277.41 -12432277.28 0.2668 0.0948

Mercury -38744-04-05 11:59 J -12429728.09 -12429728.00 -12429727.91 0.2672 0.1898

Mercury -38741-10-14 20:52 J -12428439.75 -12428439.63 -12428439.51 0.2664 0.0655

Mercury -38738-04-16 01:26 J -12427526.53 -12427526.44 -12427526.35 0.2666 0.2013

Mercury -38734-10-08 08:38 J -12425890.22 -12425890.14 -12425890.06 0.2660 0.2099

Venus -38732-10-16 17:59 J -12425150.90 -12425150.75 -12425150.61 0.2665 0.1170

Mercury -38731-04-08 10:18 J -12424977.19 -12424977.07 -12424976.95 0.2671 0.0918

Mercury -38728-10-17 18:14 J -12423688.84 -12423688.74 -12423688.64 0.2666 0.1576

Mercury -38721-10-10 06:42 J -12421139.34 -12421139.22 -12421139.10 0.2661 0.1097

Mercury -38718-04-11 08:52 J -12420226.26 -12420226.13 -12420226.00 0.2669 0.0099

Mercury -38715-10-20 15:06 J -12418937.91 -12418937.87 -12418937.82 0.2667 0.2470

Mercury -38708-10-13 04:33 J -12416388.44 -12416388.31 -12416388.18 0.2663 0.0127

Mercury -38705-04-13 07:40 J -12415475.29 -12415475.18 -12415475.06 0.2667 0.1136

Mercury -38698-04-06 17:30 J -12412925.87 -12412925.77 -12412925.68 0.2672 0.1725

Mercury -38695-10-16 02:09 J -12411637.53 -12411637.41 -12411637.29 0.2664 0.0819

Mercury -38692-04-16 06:57 J -12410724.28 -12410724.21 -12410724.14 0.2666 0.2203

Mercury -38688-10-08 14:09 J -12409088.00 -12409087.91 -12409087.83 0.2660 0.1919

Mercury -38685-04-08 15:50 J -12408174.97 -12408174.84 -12408174.72 0.2670 0.0744

Mercury -38682-10-18 23:30 J -12406886.62 -12406886.52 -12406886.43 0.2666 0.1740

Mercury -38675-10-11 12:14 J -12404337.11 -12404336.99 -12404336.87 0.2662 0.0928

Mercury -38672-04-11 14:23 J -12403424.03 -12403423.90 -12403423.77 0.2669 0.0273

Mercury -38669-10-20 20:23 J -12402135.66 -12402135.65 -12402135.63 0.2668 0.2628

Mercury -38665-04-04 00:42 J -12400874.51 -12400874.47 -12400874.43 0.2673 0.2509

Mercury -38662-10-14 09:50 J -12399586.21 -12399586.09 -12399585.96 0.2663 0.0104

Mercury -38659-04-14 13:26 J -12398673.06 -12398672.94 -12398672.83 0.2667 0.1324

Mercury -38652-04-06 22:47 J -12396123.65 -12396123.55 -12396123.44 0.2672 0.1553

Mercury -38649-10-16 07:26 J -12394835.31 -12394835.19 -12394835.07 0.2665 0.0986

Mercury -38646-04-17 12:42 J -12393922.03 -12393921.97 -12393921.92 0.2665 0.2400

Mercury -38642-10-09 19:26 J -12392285.78 -12392285.69 -12392285.59 0.2660 0.1740

Mercury -38639-04-09 21:21 J -12391372.74 -12391372.61 -12391372.49 0.2670 0.0569

Mercury -38636-10-19 04:47 J -12390084.39 -12390084.30 -12390084.22 0.2666 0.1900

Mercury -38629-10-11 17:30 J -12387534.89 -12387534.77 -12387534.65 0.2662 0.0747

Mercury -38626-04-12 19:54 J -12386621.80 -12386621.67 -12386621.54 0.2668 0.0459

Mercury -38619-04-05 06:14 J -12384072.30 -12384072.24 -12384072.18 0.2673 0.2338

Venus -38618-04-15 20:23 J -12383696.80 -12383696.65 -12383696.51 0.2667 0.0895

Mercury -38616-10-14 15:21 J -12382783.99 -12382783.86 -12382783.74 0.2663 0.0222

Mercury -38613-04-14 18:57 J -12381870.82 -12381870.71 -12381870.61 0.2667 0.1507

Venus -38610-04-13 14:23 J -12380776.97 -12380776.90 -12380776.82 0.2668 0.2351

Mercury -38609-10-07 02:38 J -12380234.42 -12380234.39 -12380234.36 0.2659 0.2577

Mercury -38606-04-08 04:18 J -12379321.43 -12379321.32 -12379321.21 0.2671 0.1377

Mercury -38603-10-17 12:42 J -12378033.08 -12378032.97 -12378032.86 0.2665 0.1153

Mercury -38600-04-17 18:14 J -12377119.77 -12377119.74 -12377119.71 0.2665 0.2594

Mercury -38596-10-10 00:57 J -12375483.57 -12375483.46 -12375483.36 0.2660 0.1562

Mercury -38593-04-10 02:38 J -12374570.52 -12374570.39 -12374570.26 0.2670 0.0388

Mercury -38590-10-20 10:04 J -12373282.16 -12373282.08 -12373282.01 0.2667 0.2063

Mercury -38583-10-12 23:02 J -12370732.67 -12370732.54 -12370732.42 0.2662 0.0578

Mercury -38580-04-13 01:26 J -12369819.57 -12369819.44 -12369819.31 0.2668 0.0639

Mercury -38573-04-05 11:30 J -12367270.09 -12367270.02 -12367269.94 0.2673 0.2169

Mercury -38570-10-15 20:38 J -12365981.76 -12365981.64 -12365981.51 0.2664 0.0389

Mercury -38567-04-16 00:28 J -12365068.58 -12365068.48 -12365068.38 0.2667 0.1700

Mercury -38563-10-08 08:09 J -12363432.22 -12363432.16 -12363432.11 0.2659 0.2400

Mercury -38560-04-08 09:50 J -12362519.21 -12362519.09 -12362518.98 0.2671 0.1202

Mercury -38557-10-17 17:59 J -12361230.86 -12361230.75 -12361230.64 0.2665 0.1319

Mercury -38550-10-11 06:14 J -12358681.34 -12358681.24 -12358681.13 0.2661 0.1388

Mercury -38547-04-11 08:09 J -12357768.29 -12357768.16 -12357768.03 0.2670 0.0207

Mercury -38544-10-20 15:21 J -12356479.93 -12356479.86 -12356479.80 0.2667 0.2225

Mercury -38537-10-13 04:18 J -12353930.45 -12353930.32 -12353930.19 0.2662 0.0401

Mercury -38534-04-14 06:57 J -12353017.34 -12353017.21 -12353017.09 0.2668 0.0826

Mercury -38527-04-06 17:02 J -12350467.87 -12350467.79 -12350467.71 0.2673 0.1995

Mercury -38524-10-16 01:54 J -12349179.54 -12349179.42 -12349179.29 0.2664 0.0556

Mercury -38521-04-16 05:59 J -12348266.34 -12348266.25 -12348266.16 0.2666 0.1885

Mercury -38517-10-08 13:26 J -12346630.01 -12346629.94 -12346629.87 0.2659 0.2218

Mercury -38514-04-09 15:06 J -12345716.98 -12345716.87 -12345716.75 0.2671 0.1028

Mercury -38511-10-18 23:30 J -12344428.63 -12344428.52 -12344428.42 0.2666 0.1488

Mercury -38504-10-11 11:45 J -12341879.12 -12341879.01 -12341878.90 0.2661 0.1210

Mercury -38501-04-11 13:40 J -12340966.06 -12340965.93 -12340965.80 0.2669 0.0025

Mercury -38498-10-21 20:38 J -12339677.70 -12339677.64 -12339677.59 0.2667 0.2385

Mercury -38491-10-14 09:35 J -12337128.22 -12337128.10 -12337127.97 0.2663 0.0241

Venus -38489-10-16 16:18 J -12336394.97 -12336394.82 -12336394.68 0.2664 0.1232

Mercury -38488-04-14 12:28 J -12336215.10 -12336214.98 -12336214.86 0.2668 0.1013

Mercury -38481-04-06 22:18 J -12333665.66 -12333665.57 -12333665.47 0.2672 0.1827

Mercury -38478-10-17 07:11 J -12332377.32 -12332377.20 -12332377.07 0.2664 0.0729

Mercury -38475-04-17 11:30 J -12331464.10 -12331464.02 -12331463.93 0.2666 0.2082

Mercury -38471-10-09 18:57 J -12329827.79 -12329827.71 -12329827.63 0.2660 0.2038

Mercury -38468-04-09 20:38 J -12328914.76 -12328914.64 -12328914.52 0.2671 0.0848

Mercury -38465-10-19 04:33 J -12327626.40 -12327626.31 -12327626.21 0.2666 0.1649

Mercury -38458-10-12 17:16 J -12325076.90 -12325076.78 -12325076.67 0.2661 0.1036

Mercury -38455-04-12 19:11 J -12324163.83 -12324163.70 -12324163.57 0.2669 0.0163

Mercury -38452-10-22 01:54 J -12322875.46 -12322875.42 -12322875.39 0.2668 0.2546

Mercury -38448-04-05 05:45 J -12321614.28 -12321614.26 -12321614.23 0.2674 0.2603

Mercury -38445-10-14 15:06 J -12320326.00 -12320325.87 -12320325.75 0.2663 0.0092

Mercury -38442-04-15 17:59 J -12319412.87 -12319412.75 -12319412.63 0.2667 0.1201

Mercury -38435-04-08 03:50 J -12316863.44 -12316863.34 -12316863.24 0.2672 0.1652

Mercury -38432-10-17 12:42 J -12315575.09 -12315574.97 -12315574.86 0.2664 0.0893

Mercury -38429-04-17 17:16 J -12314661.85 -12314661.78 -12314661.72 0.2666 0.2273

Mercury -38425-10-10 00:28 J -12313025.57 -12313025.48 -12313025.39 0.2660 0.1858

Mercury -38422-04-11 02:09 J -12312112.54 -12312112.41 -12312112.29 0.2670 0.0671

Mercury -38419-10-20 10:04 J -12310824.17 -12310824.08 -12310823.99 0.2666 0.1814

Mercury -38412-10-12 22:33 J -12308274.68 -12308274.56 -12308274.44 0.2662 0.0859

Mercury -38409-04-13 00:42 J -12307361.60 -12307361.47 -12307361.34 0.2669 0.0345

Mercury -38402-04-06 11:16 J -12304812.08 -12304812.03 -12304811.98 0.2673 0.2438

Mercury -38399-10-15 20:23 J -12303523.78 -12303523.65 -12303523.52 0.2663 0.0114

Mercury -38396-04-15 23:30 J -12302610.63 -12302610.52 -12302610.40 0.2667 0.1395

Mercury -38389-04-08 09:21 J -12300061.22 -12300061.11 -12300061.01 0.2672 0.1480

Mercury -38386-10-18 17:59 J -12298772.87 -12298772.75 -12298772.64 0.2665 0.1058

Mercury -38383-04-18 22:47 J -12297859.60 -12297859.55 -12297859.50 0.2665 0.2469

Mercury -38379-10-11 05:59 J -12296223.35 -12296223.25 -12296223.15 0.2660 0.1680

Mercury -38376-04-11 07:40 J -12295310.31 -12295310.18 -12295310.06 0.2670 0.0498

Venus -38375-04-16 00:14 J -12294940.62 -12294940.49 -12294940.35 0.2667 0.1182

Mercury -38373-10-20 15:21 J -12294021.95 -12294021.86 -12294021.78 0.2666 0.1974

Venus -38367-04-13 18:28 J -12292020.83 -12292020.73 -12292020.64 0.2669 0.2061

Mercury -38366-10-14 03:50 J -12291472.46 -12291472.34 -12291472.21 0.2662 0.0688

Mercury -38363-04-14 06:14 J -12290559.37 -12290559.24 -12290559.11 0.2668 0.0530

Mercury -38356-04-06 16:33 J -12288009.87 -12288009.81 -12288009.74 0.2673 0.2266

Mercury -38353-10-16 01:40 J -12286721.55 -12286721.43 -12286721.30 0.2663 0.0286

Mercury -38350-04-17 05:02 J -12285808.39 -12285808.29 -12285808.18 0.2667 0.1580

Mercury -38346-10-09 12:57 J -12284172.00 -12284171.96 -12284171.92 0.2659 0.2519

Mercury -38343-04-09 14:38 J -12283259.00 -12283258.89 -12283258.78 0.2671 0.1307

Mercury -38340-10-18 23:16 J -12281970.64 -12281970.53 -12281970.42 0.2665 0.1224

Mercury -38337-04-19 04:18 J -12281057.32 -12281057.32 -12281057.31 0.2665 0.2662

Mercury -38333-10-11 11:16 J -12279421.13 -12279421.03 -12279420.92 0.2660 0.1499

Mercury -38330-04-12 12:57 J -12278508.09 -12278507.96 -12278507.83 0.2670 0.0317

Mercury -38327-10-21 20:38 J -12277219.72 -12277219.64 -12277219.57 0.2667 0.2138

Mercury -38320-10-14 09:21 J -12274670.24 -12274670.11 -12274669.98 0.2662 0.0510

Mercury -38317-04-14 11:45 J -12273757.14 -12273757.01 -12273756.89 0.2668 0.0714

Mercury -38310-04-07 22:04 J -12271207.66 -12271207.58 -12271207.51 0.2673 0.2100

Mercury -38307-10-17 07:11 J -12269919.33 -12269919.20 -12269919.08 0.2664 0.0463

Mercury -38304-04-17 10:47 J -12269006.15 -12269006.05 -12269005.96 0.2666 0.1772

Mercury -38300-10-09 18:28 J -12267369.79 -12267369.73 -12267369.67 0.2659 0.2336

Mercury -38297-04-09 20:09 J -12266456.78 -12266456.66 -12266456.55 0.2671 0.1134

Mercury -38294-10-20 04:33 J -12265168.42 -12265168.31 -12265168.20 0.2665 0.1389

Mercury -38287-10-12 16:47 J -12262618.91 -12262618.80 -12262618.69 0.2661 0.1322

Mercury -38284-04-12 18:28 J -12261705.86 -12261705.73 -12261705.60 0.2669 0.0136

Mercury -38281-10-22 01:54 J -12260417.49 -12260417.42 -12260417.36 0.2667 0.2298

Mercury -38274-10-15 14:38 J -12257868.01 -12257867.89 -12257867.76 0.2662 0.0345

Mercury -38271-04-15 17:16 J -12256954.91 -12256954.78 -12256954.66 0.2668 0.0898

Mercury -38264-04-08 03:21 J -12254405.44 -12254405.36 -12254405.27 0.2673 0.1926

Mercury -38261-10-17 12:28 J -12253117.10 -12253116.98 -12253116.86 0.2664 0.0624

Mercury -38258-04-18 16:18 J -12252203.91 -12252203.82 -12252203.74 0.2666 0.1959

Mercury -38254-10-10 23:59 J -12250567.58 -12250567.50 -12250567.43 0.2659 0.2158

Mercury -38251-04-11 01:26 J -12249654.56 -12249654.44 -12249654.32 0.2671 0.0959

Mercury -38248-10-20 09:50 J -12248366.19 -12248366.09 -12248365.99 0.2666 0.1558

Venus -38246-10-17 14:38 J -12247639.03 -12247638.89 -12247638.75 0.2664 0.1294

Mercury -38241-10-12 22:04 J -12245816.69 -12245816.58 -12245816.46 0.2661 0.1146

Mercury -38238-04-13 23:59 J -12244903.63 -12244903.50 -12244903.37 0.2669 0.0064

Mercury -38235-10-23 06:57 J -12243615.25 -12243615.21 -12243615.16 0.2667 0.2462

Mercury -38228-10-15 20:09 J -12241065.79 -12241065.66 -12241065.53 0.2663 0.0164

Mercury -38225-04-15 22:47 J -12240152.67 -12240152.55 -12240152.43 0.2668 0.1084

Mercury -38218-04-09 08:52 J -12237603.23 -12237603.13 -12237603.04 0.2672 0.1754

Mercury -38215-10-18 17:45 J -12236314.88 -12236314.76 -12236314.64 0.2664 0.0797

Mercury -38212-04-18 21:50 J -12235401.67 -12235401.59 -12235401.51 0.2666 0.2153

Mercury -38208-10-11 05:16 J -12233765.36 -12233765.28 -12233765.19 0.2660 0.1978

Mercury -38205-04-11 06:57 J -12232852.33 -12232852.21 -12232852.08 0.2671 0.0777

Mercury -38202-10-21 15:06 J -12231563.96 -12231563.87 -12231563.77 0.2666 0.1722

Mercury -38195-10-14 03:35 J -12229014.47 -12229014.35 -12229014.23 0.2661 0.0969

Mercury -38192-04-14 05:30 J -12228101.40 -12228101.27 -12228101.14 0.2669 0.0233

Mercury -38189-10-23 12:14 J -12226813.00 -12226812.99 -12226812.97 0.2668 0.2622

Mercury -38185-04-06 16:18 J -12225551.86 -12225551.82 -12225551.78 0.2674 0.2529

Mercury -38182-10-17 01:26 J -12224263.57 -12224263.44 -12224263.31 0.2663 0.0036

Mercury -38179-04-17 04:18 J -12223350.44 -12223350.32 -12223350.21 0.2667 0.1272

Mercury -38172-04-09 14:09 J -12220801.01 -12220800.91 -12220800.80 0.2672 0.1582

Mercury -38169-10-18 23:02 J -12219512.65 -12219512.54 -12219512.42 0.2665 0.0967

Mercury -38166-04-20 03:21 J -12218599.42 -12218599.36 -12218599.30 0.2666 0.2340

Mercury -38162-10-12 10:47 J -12216963.15 -12216963.05 -12216962.96 0.2660 0.1797

Mercury -38159-04-12 12:28 J -12216050.11 -12216049.98 -12216049.86 0.2670 0.0599

Mercury -38156-10-21 20:23 J -12214761.73 -12214761.65 -12214761.56 0.2666 0.1891

Mercury -38149-10-14 08:52 J -12212212.25 -12212212.13 -12212212.00 0.2661 0.0797

Mercury -38146-04-15 11:02 J -12211299.17 -12211299.04 -12211298.91 0.2669 0.0419

Mercury -38139-04-07 21:35 J -12208749.65 -12208749.60 -12208749.54 0.2673 0.2366

Mercury -38136-10-17 06:57 J -12207461.34 -12207461.21 -12207461.09 0.2663 0.0197

Mercury -38133-04-17 09:50 J -12206548.20 -12206548.09 -12206547.98 0.2667 0.1461

Venus -38132-04-16 04:18 J -12206184.45 -12206184.32 -12206184.19 0.2668 0.1471

Mercury -38129-10-09 17:45 J -12204911.77 -12204911.76 -12204911.75 0.2659 0.2642

Mercury -38126-04-10 19:40 J -12203998.79 -12203998.68 -12203998.57 0.2672 0.1410

Venus -38124-04-13 22:33 J -12203264.68 -12203264.56 -12203264.45 0.2669 0.1761

Mercury -38123-10-20 04:33 J -12202710.43 -12202710.31 -12202710.20 0.2665 0.1135

Mercury -38120-04-20 08:52 J -12201797.16 -12201797.13 -12201797.09 0.2665 0.2539

Mercury -38116-10-12 16:18 J -12200160.93 -12200160.82 -12200160.72 0.2660 0.1618

Mercury -38113-04-12 17:59 J -12199247.88 -12199247.75 -12199247.62 0.2670 0.0421

Mercury -38110-10-23 01:40 J -12197959.50 -12197959.43 -12197959.35 0.2666 0.2050

Mercury -38103-10-15 14:23 J -12195410.03 -12195409.90 -12195409.78 0.2662 0.0619

Mercury -38100-04-15 16:33 J -12194496.94 -12194496.81 -12194496.69 0.2668 0.0602

Mercury -38093-04-08 03:06 J -12191947.44 -12191947.37 -12191947.30 0.2673 0.2195

Mercury -38090-10-18 12:14 J -12190659.12 -12190658.99 -12190658.87 0.2663 0.0355

Mercury -38087-04-18 15:21 J -12189745.96 -12189745.86 -12189745.76 0.2667 0.1651

Mercury -38083-10-10 23:16 J -12188109.58 -12188109.53 -12188109.48 0.2659 0.2461

Mercury -38080-04-11 00:57 J -12187196.57 -12187196.46 -12187196.34 0.2671 0.1237

Mercury -38077-10-20 09:50 J -12185908.20 -12185908.09 -12185907.98 0.2665 0.1296

Mercury -38070-10-13 21:35 J -12183358.71 -12183358.60 -12183358.49 0.2660 0.1438

Mercury -38067-04-13 23:16 J -12182445.66 -12182445.53 -12182445.40 0.2670 0.0248

Mercury -38064-10-23 06:57 J -12181157.27 -12181157.21 -12181157.14 0.2667 0.2216

Mercury -38057-10-15 19:40 J -12178607.80 -12178607.68 -12178607.55 0.2662 0.0448

Mercury -38054-04-16 22:04 J -12177694.71 -12177694.58 -12177694.46 0.2668 0.0789

Mercury -38047-04-09 08:23 J -12175145.23 -12175145.15 -12175145.07 0.2673 0.2029

Mercury -38044-10-18 17:30 J -12173856.89 -12173856.77 -12173856.64 0.2664 0.0526

Mercury -38041-04-18 20:52 J -12172943.72 -12172943.63 -12172943.53 0.2666 0.1844

Mercury -38037-10-11 04:47 J -12171307.37 -12171307.30 -12171307.24 0.2659 0.2277

Mercury -38034-04-12 06:28 J -12170394.35 -12170394.23 -12170394.11 0.2671 0.1057

Mercury -38031-10-21 15:06 J -12169105.98 -12169105.87 -12169105.77 0.2665 0.1463

Mercury -38024-10-14 03:06 J -12166556.48 -12166556.37 -12166556.26 0.2661 0.1259

Mercury -38021-04-14 04:47 J -12165643.43 -12165643.30 -12165643.17 0.2669 0.0074

Mercury -38018-10-24 12:14 J -12164355.04 -12164354.99 -12164354.93 0.2667 0.2374

Mercury -38011-10-17 01:11 J -12161805.58 -12161805.45 -12161805.32 0.2662 0.0270

Mercury -38008-04-17 03:21 J -12160892.48 -12160892.36 -12160892.23 0.2668 0.0976

Venus -38003-10-17 12:57 J -12158883.10 -12158882.96 -12158882.82 0.2663 0.1349

Mercury -38001-04-09 13:40 J -12158343.02 -12158342.93 -12158342.83 0.2673 0.1857

38TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 38th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-37998-10-19 22:47 J	-12157054.67	-12157054.55	-12157054.42	0.2664	0.0701		
Mercury	-37995-04-20 02:23 J	-12156141.48	-12156141.40	-12156141.31	0.2666	0.2031		
Mercury	-37991-10-12 10:18 J	-12154505.15	-12154505.07	-12154505.00	0.2659	0.2098		
Mercury	-37988-04-12 11:59 J	-12153592.13	-12153592.00	-12153591.88	0.2671	0.0888		
Mercury	-37985-10-21 20:23 J	-12152303.75	-12152303.65	-12152303.55	0.2666	0.1630		
Mercury	-37978-10-15 08:38 J	-12149754.26	-12149754.14	-12149754.03	0.2661	0.1084		
Mercury	-37975-04-15 10:18 J	-12148841.20	-12148841.07	-12148840.94	0.2669	0.0124		
Mercury	-37972-10-24 17:30 J	-12147552.80	-12147552.77	-12147552.73	0.2667	0.2539		
Mercury	-37968-04-07 21:21 J	-12146291.63	-12146291.61	-12146291.59	0.2674	0.2628		
Mercury	-37965-10-17 06:28 J	-12145003.35	-12145003.23	-12145003.10	0.2663	0.0119		
Mercury	-37962-04-18 09:06 J	-12144090.24	-12144090.12	-12144090.01	0.2668	0.1160		
Mercury	-37955-04-10 19:11 J	-12141540.80	-12141540.70	-12141540.60	0.2672	0.1684		

Mercury -37952-10-20 04:18 J -12140252.44 -12140252.32 -12140252.20 0.2664 0.0868

Mercury -37949-04-20 08:09 J -12139339.24 -12139339.16 -12139339.09 0.2666 0.2226

Mercury -37945-10-12 15:35 J -12137702.93 -12137702.85 -12137702.76 0.2660 0.1914

Mercury -37942-04-13 17:16 J -12136789.90 -12136789.78 -12136789.65 0.2671 0.0706

Mercury -37939-10-23 01:40 J -12135501.52 -12135501.43 -12135501.34 0.2666 0.1795

Mercury -37932-10-15 13:54 J -12132952.04 -12132951.92 -12132951.80 0.2661 0.0903

Mercury -37929-04-15 15:50 J -12132038.97 -12132038.84 -12132038.71 0.2669 0.0306

Mercury -37922-04-09 02:38 J -12129489.43 -12129489.39 -12129489.34 0.2674 0.2460

Mercury -37919-10-18 11:59 J -12128201.13 -12128201.00 -12128200.88 0.2663 0.0109

Mercury -37916-04-18 14:23 J -12127288.01 -12127287.90 -12127287.78 0.2667 0.1346

Mercury -37909-04-11 00:42 J -12124738.58 -12124738.47 -12124738.37 0.2672 0.1508

Mercury -37906-10-21 09:35 J -12123450.22 -12123450.10 -12123449.98 0.2664 0.1034

Mercury -37903-04-21 13:40 J -12122536.99 -12122536.93 -12122536.88 0.2666 0.2416

Mercury -37899-10-13 21:06 J -12120900.72 -12120900.62 -12120900.52 0.2660 0.1735

Mercury -37896-04-13 22:47 J -12119987.68 -12119987.55 -12119987.42 0.2670 0.0528

Mercury -37893-10-23 06:57 J -12118699.29 -12118699.21 -12118699.12 0.2666 0.1964

Venus -37889-04-16 08:09 J -12117428.27 -12117428.16 -12117428.04 0.2669 0.1755

Mercury -37886-10-16 19:26 J -12116149.82 -12116149.69 -12116149.57 0.2662 0.0726

Mercury -37883-04-16 21:06 J -12115236.74 -12115236.62 -12115236.49 0.2669 0.0495

Venus -37881-04-14 02:23 J -12114508.52 -12114508.40 -12114508.27 0.2670 0.1474

Mercury -37876-04-09 08:09 J -12112687.23 -12112687.16 -12112687.10 0.2673 0.2294

Mercury -37873-10-18 17:16 J -12111398.91 -12111398.78 -12111398.65 0.2663 0.0253

Mercury -37870-04-19 20:09 J -12110485.77 -12110485.66 -12110485.56 0.2667 0.1534

Mercury -37866-10-12 04:04 J -12108849.36 -12108849.33 -12108849.30 0.2659 0.2587

Mercury -37863-04-12 05:59 J -12107936.36 -12107936.25 -12107936.14 0.2672 0.1334

Mercury -37860-10-21 14:52 J -12106647.99 -12106647.88 -12106647.77 0.2665 0.1205

Mercury -37857-04-21 19:11 J -12105734.72 -12105734.70 -12105734.68 0.2665 0.2608

Mercury -37853-10-14 02:38 J -12104098.50 -12104098.39 -12104098.29 0.2660 0.1555

Mercury -37850-04-15 04:18 J -12103185.45 -12103185.32 -12103185.19 0.2670 0.0346

Mercury -37847-10-24 12:14 J -12101897.06 -12101896.99 -12101896.91 0.2666 0.2125

Mercury -37840-10-17 00:42 J -12099347.59 -12099347.47 -12099347.34 0.2662 0.0552

Mercury -37837-04-17 02:52 J -12098434.51 -12098434.38 -12098434.26 0.2668 0.0678

Mercury -37830-04-10 13:26 J -12095885.01 -12095884.94 -12095884.86 0.2673 0.2120

Mercury -37827-10-19 22:33 J -12094596.68 -12094596.56 -12094596.43 0.2663 0.0431

Mercury -37824-04-20 01:26 J -12093683.53 -12093683.44 -12093683.34 0.2667 0.1723

Mercury -37820-10-12 09:35 J -12092047.15 -12092047.10 -12092047.05 0.2659 0.2403

Mercury -37817-04-12 11:30 J -12091134.14 -12091134.02 -12091133.91 0.2671 0.1162

Mercury -37814-10-22 20:09 J -12089845.76 -12089845.66 -12089845.55 0.2665 0.1375

Mercury -37807-10-15 07:54 J -12087296.28 -12087296.17 -12087296.06 0.2660 0.1377

Mercury -37804-04-15 09:35 J -12086383.23 -12086383.10 -12086382.97 0.2670 0.0183

Mercury -37801-10-24 17:30 J -12085094.83 -12085094.77 -12085094.70 0.2667 0.2293

Mercury -37794-10-18 06:14 J -12082545.37 -12082545.24 -12082545.12 0.2662 0.0384

Mercury -37791-04-18 08:23 J -12081632.28 -12081632.15 -12081632.03 0.2668 0.0864

Mercury -37784-04-10 18:42 J -12079082.80 -12079082.72 -12079082.63 0.2673 0.1957

Mercury -37781-10-20 04:04 J -12077794.46 -12077794.33 -12077794.21 0.2664 0.0600

Mercury -37778-04-21 07:11 J -12076881.29 -12076881.20 -12076881.11 0.2666 0.1913

Mercury -37774-10-13 15:06 J -12075244.94 -12075244.87 -12075244.80 0.2659 0.2216

Mercury -37771-04-13 16:47 J -12074331.92 -12074331.80 -12074331.68 0.2671 0.0985

Venus -37768-10-19 22:47 J -12073046.57 -12073046.55 -12073046.52 0.2663 0.2628

Mercury -37768-10-23 01:40 J -12073043.54 -12073043.43 -12073043.33 0.2665 0.1542

Mercury -37761-10-15 13:26 J -12070494.05 -12070493.94 -12070493.82 0.2661 0.1194

Venus -37760-10-17 10:47 J -12070127.19 -12070127.05 -12070126.91 0.2662 0.1449

Mercury -37758-04-16 15:06 J -12069581.00 -12069580.87 -12069580.74 0.2669 0.0053

Mercury -37755-10-25 22:47 J -12068292.59 -12068292.55 -12068292.50 0.2667 0.2453

Mercury -37748-10-18 11:30 J -12065743.15 -12065743.02 -12065742.89 0.2662 0.0200

Mercury -37745-04-18 13:40 J -12064830.05 -12064829.93 -12064829.81 0.2668 0.1045

Mercury -37738-04-12 00:14 J -12062280.58 -12062280.49 -12062280.40 0.2673 0.1780

Mercury -37735-10-21 09:21 J -12060992.23 -12060992.11 -12060991.99 0.2664 0.0767

Mercury -37732-04-21 12:42 J -12060079.05 -12060078.97 -12060078.89 0.2666 0.2106

Mercury -37728-10-13 20:38 J -12058442.73 -12058442.64 -12058442.56 0.2659 0.2037

Mercury -37725-04-13 22:18 J -12057529.69 -12057529.57 -12057529.45 0.2671 0.0811

Mercury -37722-10-24 06:57 J -12056241.31 -12056241.21 -12056241.12 0.2666 0.1705

Mercury -37715-10-16 18:57 J -12053691.83 -12053691.71 -12053691.59 0.2661 0.1015

Mercury -37712-04-16 20:38 J -12052778.77 -12052778.64 -12052778.51 0.2669 0.0197

Mercury -37709-10-26 04:04 J -12051490.35 -12051490.33 -12051490.31 0.2667 0.2617

Mercury -37705-04-09 07:40 J -12050229.21 -12050229.18 -12050229.14 0.2674 0.2559

Mercury -37702-10-19 17:02 J -12048940.92 -12048940.79 -12048940.67 0.2663 0.0076

Mercury -37699-04-19 19:11 J -12048027.81 -12048027.70 -12048027.58 0.2668 0.1234

Mercury -37692-04-12 05:30 J -12045478.37 -12045478.27 -12045478.17 0.2672 0.1612

Mercury -37689-10-21 14:38 J -12044190.01 -12044189.89 -12044189.77 0.2664 0.0940

Mercury -37686-04-22 18:14 J -12043276.80 -12043276.74 -12043276.67 0.2666 0.2298

Mercury -37682-10-15 01:54 J -12041640.51 -12041640.42 -12041640.32 0.2660 0.1852

Mercury -37679-04-15 03:50 J -12040727.47 -12040727.34 -12040727.22 0.2671 0.0636

Mercury -37676-10-24 12:14 J -12039439.08 -12039438.99 -12039438.90 0.2666 0.1872

Mercury -37669-10-17 00:14 J -12036889.61 -12036889.49 -12036889.36 0.2661 0.0839

Mercury -37666-04-18 02:09 J -12035976.54 -12035976.41 -12035976.28 0.2669 0.0380

Mercury -37659-04-10 13:11 J -12033427.01 -12033426.95 -12033426.90 0.2674 0.2387

Mercury -37656-10-19 22:18 J -12032138.70 -12032138.57 -12032138.44 0.2663 0.0151

Mercury -37653-04-20 00:42 J -12031225.58 -12031225.47 -12031225.36 0.2667 0.1417

Mercury -37646-04-13 11:02 J -12028676.15 -12028676.04 -12028675.93 0.2672 0.1436

Venus -37646-04-17 12:28 J -12028672.08 -12028671.98 -12028671.88 0.2669 0.2044

Mercury -37643-10-22 20:09 J -12027387.78 -12027387.66 -12027387.55 0.2665 0.1111

Mercury -37640-04-22 23:45 J -12026474.55 -12026474.51 -12026474.46 0.2666 0.2488

Venus -37638-04-15 06:42 J -12025752.36 -12025752.22 -12025752.08 0.2671 0.1161

Mercury -37636-10-15 07:26 J -12024838.29 -12024838.19 -12024838.09 0.2660 0.1671

Mercury -37633-04-15 09:06 J -12023925.25 -12023925.12 -12023924.99 0.2670 0.0457

Mercury -37630-10-25 17:30 J -12022636.85 -12022636.77 -12022636.69 0.2666 0.2038

Mercury -37623-10-18 05:45 J -12020087.39 -12020087.26 -12020087.14 0.2662 0.0659

Mercury -37620-04-18 07:40 J -12019174.31 -12019174.18 -12019174.06 0.2669 0.0569

Mercury -37613-04-10 18:28 J -12016624.80 -12016624.73 -12016624.66 0.2673 0.2219

Mercury -37610-10-21 03:50 J -12015336.47 -12015336.34 -12015336.22 0.2663 0.0339

Mercury -37607-04-21 06:14 J -12014423.34 -12014423.24 -12014423.13 0.2667 0.1608

Mercury -37603-10-13 14:23 J -12012786.94 -12012786.90 -12012786.86 0.2659 0.2526

Mercury -37600-04-13 16:18 J -12011873.93 -12011873.82 -12011873.70 0.2672 0.1265

Mercury -37597-10-23 01:26 J -12010585.55 -12010585.44 -12010585.33 0.2665 0.1279

Mercury -37590-10-16 12:57 J -12008036.07 -12008035.96 -12008035.85 0.2660 0.1488

Mercury -37587-04-16 14:38 J -12007123.02 -12007122.89 -12007122.76 0.2670 0.0276

Mercury -37584-10-25 22:47 J -12005834.62 -12005834.55 -12005834.48 0.2667 0.2203

Mercury -37577-10-18 11:02 J -12003285.16 -12003285.04 -12003284.91 0.2662 0.0489

Mercury -37574-04-19 12:57 J -12002372.08 -12002371.96 -12002371.83 0.2668 0.0745

Mercury -37567-04-11 23:59 J -11999822.58 -11999822.50 -11999822.42 0.2673 0.2048

Mercury -37564-10-21 09:06 J -11998534.25 -11998534.12 -11998534.00 0.2663 0.0500

Mercury -37561-04-21 11:45 J -11997621.10 -11997621.01 -11997620.91 0.2667 0.1795

Mercury -37557-10-13 19:54 J -11995984.73 -11995984.67 -11995984.61 0.2659 0.2343

Mercury -37554-04-14 21:50 J -11995071.71 -11995071.59 -11995071.47 0.2671 0.1085

Mercury -37551-10-24 06:42 J -11993783.32 -11993783.22 -11993783.11 0.2665 0.1446

Mercury -37544-10-16 18:14 J -11991233.85 -11991233.74 -11991233.62 0.2660 0.1314

Mercury -37541-04-16 19:54 J -11990320.80 -11990320.67 -11990320.54 0.2670 0.0128

Mercury -37538-10-27 04:04 J -11989032.38 -11989032.33 -11989032.27 0.2667 0.2369

Mercury -37531-10-19 16:33 J -11986482.94 -11986482.81 -11986482.68 0.2662 0.0303

Mercury -37528-04-19 18:28 J -11985569.85 -11985569.73 -11985569.61 0.2668 0.0934

Venus -37525-10-19 21:06 J -11984290.65 -11984290.62 -11984290.58 0.2663 0.2582

Mercury -37521-04-12 05:16 J -11983020.37 -11983020.28 -11983020.19 0.2673 0.1880

Mercury -37518-10-22 14:23 J -11981732.02 -11981731.90 -11981731.77 0.2664 0.0671

Venus -37517-10-17 08:52 J -11981371.26 -11981371.13 -11981370.99 0.2661 0.1503

Mercury -37515-04-22 17:16 J -11980818.86 -11980818.78 -11980818.69 0.2666 0.1988

Mercury -37511-10-15 01:26 J -11979182.52 -11979182.44 -11979182.37 0.2659 0.2158

Mercury -37508-04-15 03:21 J -11978269.48 -11978269.36 -11978269.24 0.2671 0.0913

Mercury -37505-10-24 11:59 J -11976981.10 -11976981.00 -11976980.90 0.2665 0.1617

Mercury -37498-10-17 23:45 J -11974431.63 -11974431.51 -11974431.39 0.2661 0.1128

Mercury -37495-04-18 01:26 J -11973518.57 -11973518.44 -11973518.31 0.2669 0.0115

Mercury -37492-10-27 09:21 J -11972230.14 -11972230.11 -11972230.07 0.2667 0.2532

Mercury -37488-04-10 12:57 J -11970968.97 -11970968.96 -11970968.95 0.2674 0.2650

Mercury -37485-10-19 21:50 J -11969680.71 -11969680.59 -11969680.46 0.2662 0.0153

Mercury -37482-04-20 23:59 J -11968767.62 -11968767.50 -11968767.38 0.2668 0.1119

Mercury -37475-04-13 10:33 J -11966218.15 -11966218.06 -11966217.96 0.2673 0.1708

Mercury -37472-10-22 19:54 J -11964929.79 -11964929.67 -11964929.55 0.2664 0.0847

Mercury -37469-04-22 22:47 J -11964016.62 -11964016.55 -11964016.47 0.2666 0.2181

Mercury -37465-10-15 06:42 J -11962380.30 -11962380.22 -11962380.13 0.2659 0.1975

Mercury -37462-04-16 08:38 J -11961467.26 -11961467.14 -11961467.02 0.2671 0.0735

Mercury -37459-10-25 17:16 J -11960178.87 -11960178.78 -11960178.68 0.2666 0.1785

Mercury -37452-10-18 05:16 J -11957629.40 -11957629.28 -11957629.16 0.2661 0.0950

Mercury -37449-04-18 06:57 J -11956716.34 -11956716.21 -11956716.08 0.2669 0.0271

Mercury -37442-04-11 18:14 J -11954166.78 -11954166.74 -11954166.70 0.2674 0.2482

Mercury -37439-10-21 03:21 J -11952878.49 -11952878.36 -11952878.23 0.2663 0.0048

Mercury -37436-04-21 05:30 J -11951965.38 -11951965.27 -11951965.15 0.2668 0.1310

Mercury -37429-04-13 16:04 J -11949415.94 -11949415.83 -11949415.73 0.2672 0.1539

Mercury -37426-10-24 01:11 J -11948127.57 -11948127.45 -11948127.34 0.2664 0.1013

Mercury -37423-04-24 04:33 J -11947214.37 -11947214.31 -11947214.25 0.2666 0.2374

Mercury -37419-10-16 12:14 J -11945578.08 -11945577.99 -11945577.89 0.2660 0.1788

Mercury -37416-04-16 14:09 J -11944665.04 -11944664.91 -11944664.79 0.2671 0.0557

Mercury -37413-10-25 22:33 J -11943376.64 -11943376.56 -11943376.47 0.2666 0.1953

Mercury -37406-10-19 10:47 J -11940827.18 -11940827.05 -11940826.93 0.2661 0.0774

Venus -37403-04-17 16:33 J -11939915.88 -11939915.81 -11939915.74 0.2670 0.2338

Mercury -37403-04-19 12:28 J -11939914.11 -11939913.98 -11939913.85 0.2669 0.0456

Mercury -37396-04-11 23:30 J -11937364.58 -11937364.52 -11937364.46 0.2674 0.2317

Venus -37395-04-15 10:47 J -11936996.20 -11936996.05 -11936995.90 0.2672 0.0881

Mercury -37393-10-21 08:38 J -11936076.26 -11936076.14 -11936076.01 0.2663 0.0230

Mercury -37390-04-22 11:02 J -11935163.15 -11935163.04 -11935162.93 0.2667 0.1493

Mercury -37386-10-14 19:11 J -11933526.71 -11933526.70 -11933526.70 0.2658 0.2649

Mercury -37383-04-14 21:21 J -11932613.72 -11932613.61 -11932613.50 0.2672 0.1362

Mercury -37380-10-24 06:28 J -11931325.34 -11931325.23 -11931325.12 0.2665 0.1183

Mercury -37377-04-24 10:04 J -11930412.11 -11930412.08 -11930412.05 0.2666 0.2569

Mercury -37373-10-16 17:45 J -11928775.86 -11928775.76 -11928775.66 0.2660 0.1607

Mercury -37370-04-17 19:26 J -11927862.82 -11927862.69 -11927862.56 0.2670 0.0383

Mercury -37367-10-27 04:04 J -11926574.41 -11926574.33 -11926574.26 0.2666 0.2117

Mercury -37360-10-19 16:04 J -11924024.95 -11924024.83 -11924024.70 0.2662 0.0590

Mercury -37357-04-19 17:45 J -11923111.88 -11923111.76 -11923111.63 0.2669 0.0643

Mercury -37350-04-13 05:02 J -11920562.37 -11920562.29 -11920562.22 0.2674 0.2148

Mercury -37347-10-22 14:09 J -11919274.04 -11919273.91 -11919273.78 0.2663 0.0398

Mercury -37344-04-22 16:33 J -11918360.91 -11918360.81 -11918360.71 0.2667 0.1686

Mercury -37340-10-15 00:42 J -11916724.52 -11916724.47 -11916724.43 0.2659 0.2466

Mercury -37337-04-15 02:52 J -11915811.50 -11915811.38 -11915811.27 0.2672 0.1190

Mercury -37334-10-25 11:45 J -11914523.12 -11914523.01 -11914522.90 0.2665 0.1355

Mercury -37327-10-17 23:16 J -11911973.64 -11911973.53 -11911973.42 0.2660 0.1421

Mercury -37324-04-18 00:57 J -11911060.59 -11911060.46 -11911060.33 0.2670 0.0198

Mercury -37321-10-27 09:21 J -11909772.18 -11909772.11 -11909772.05 0.2667 0.2284

Mercury -37314-10-20 21:35 J -11907222.73 -11907222.60 -11907222.48 0.2662 0.0418

Mercury -37311-04-20 23:16 J -11906309.65 -11906309.53 -11906309.40 0.2668 0.0823

Mercury -37304-04-13 10:18 J -11903760.15 -11903760.07 -11903759.98 0.2673 0.1974

Mercury -37301-10-22 19:26 J -11902471.81 -11902471.69 -11902471.56 0.2663 0.0574

Mercury -37298-04-23 22:04 J -11901558.67 -11901558.58 -11901558.49 0.2667 0.1872

Mercury -37294-10-16 06:14 J -11899922.31 -11899922.24 -11899922.18 0.2659 0.2279

Mercury -37291-04-16 08:09 J -11899009.28 -11899009.16 -11899009.04 0.2671 0.1013

Mercury -37288-10-25 17:16 J -11897720.89 -11897720.78 -11897720.68 0.2665 0.1528

Venus -37282-10-20 18:57 J -11895534.76 -11895534.71 -11895534.65 0.2662 0.2477

Mercury -37281-10-18 04:47 J -11895171.42 -11895171.30 -11895171.19 0.2660 0.1246

Mercury -37278-04-19 06:14 J -11894258.36 -11894258.24 -11894258.11 0.2670 0.0099

Mercury -37275-10-28 14:38 J -11892969.94 -11892969.89 -11892969.84 0.2667 0.2450

Venus -37274-10-18 06:42 J -11892615.35 -11892615.22 -11892615.09 0.2660 0.1597

Mercury -37268-10-21 02:52 J -11890420.51 -11890420.38 -11890420.25 0.2662 0.0238

Mercury -37265-04-21 04:47 J -11889507.42 -11889507.30 -11889507.18 0.2668 0.1011

Mercury -37258-04-14 15:35 J -11886957.94 -11886957.85 -11886957.75 0.2673 0.1806

Mercury -37255-10-24 00:57 J -11885669.59 -11885669.46 -11885669.34 0.2664 0.0750

Mercury -37252-04-24 03:35 J -11884756.43 -11884756.35 -11884756.27 0.2666 0.2065

Mercury -37248-10-16 11:45 J -11883120.09 -11883120.01 -11883119.94 0.2659 0.2094

Mercury -37245-04-16 13:40 J -11882207.05 -11882206.93 -11882206.81 0.2671 0.0834

Mercury -37242-10-26 22:33 J -11880918.66 -11880918.56 -11880918.46 0.2665 0.1695

Mercury -37235-10-19 10:04 J -11878369.19 -11878369.08 -11878368.96 0.2661 0.1062

Mercury -37232-04-19 11:45 J -11877456.13 -11877456.01 -11877455.88 0.2670 0.0190

Mercury -37229-10-28 19:54 J -11876167.69 -11876167.67 -11876167.65 0.2667 0.2616

Mercury -37225-04-11 23:30 J -11874906.55 -11874906.52 -11874906.49 0.2674 0.2575

Mercury -37222-10-22 08:23 J -11873618.28 -11873618.15 -11873618.02 0.2662 0.0083

Mercury -37219-04-22 10:18 J -11872705.19 -11872705.07 -11872704.95 0.2668 0.1193

Mercury -37212-04-14 21:06 J -11870155.72 -11870155.62 -11870155.52 0.2673 0.1630

Mercury -37209-10-24 06:14 J -11868867.36 -11868867.24 -11868867.12 0.2664 0.0919

Mercury -37206-04-25 09:06 J -11867954.19 -11867954.12 -11867954.05 0.2666 0.2258

Mercury -37202-10-17 17:02 J -11866317.88 -11866317.79 -11866317.70 0.2659 0.1910

Mercury -37199-04-17 18:57 J -11865404.83 -11865404.71 -11865404.58 0.2671 0.0661

Mercury -37196-10-27 03:50 J -11864116.43 -11864116.34 -11864116.25 0.2666 0.1865

Mercury -37189-10-19 15:35 J -11861566.97 -11861566.85 -11861566.73 0.2661 0.0880

Mercury -37186-04-20 17:16 J -11860653.91 -11860653.78 -11860653.65 0.2669 0.0348

Mercury -37179-04-13 04:47 J -11858104.35 -11858104.30 -11858104.25 0.2674 0.2409

Mercury -37176-10-22 13:40 J -11856816.06 -11856815.93 -11856815.80 0.2663 0.0134

Mercury -37173-04-22 15:50 J -11855902.95 -11855902.84 -11855902.73 0.2668 0.1389

Mercury -37166-04-16 02:23 J -11853353.50 -11853353.40 -11853353.29 0.2672 0.1459

Mercury -37163-10-25 11:30 J -11852065.13 -11852065.02 -11852064.90 0.2664 0.1092

Venus -37160-04-17 20:38 J -11851159.66 -11851159.64 -11851159.61 0.2671 0.2631

Mercury -37160-04-25 14:38 J -11851151.94 -11851151.89 -11851151.84 0.2666 0.2450

Mercury -37156-10-17 22:33 J -11849515.65 -11849515.56 -11849515.46 0.2660 0.1724

Mercury -37153-04-18 00:28 J -11848602.61 -11848602.48 -11848602.35 0.2671 0.0478
 Venus -37152-04-15 15:06 J -11848240.02 -11848239.87 -11848239.72 0.2672 0.0557
 Mercury -37150-10-28 09:06 J -11847314.20 -11847314.12 -11847314.04 0.2666 0.2034
 Mercury -37143-10-20 21:06 J -11844764.75 -11844764.62 -11844764.50 0.2661 0.0705
 Mercury -37140-04-20 22:47 J -11843851.68 -11843851.55 -11843851.42 0.2669 0.0534
 Mercury -37133-04-13 10:04 J -11841302.15 -11841302.08 -11841302.01 0.2674 0.2239
 Mercury -37130-10-23 19:11 J -11840013.83 -11840013.70 -11840013.58 0.2663 0.0303
 Mercury -37127-04-23 21:21 J -11839100.71 -11839100.61 -11839100.50 0.2667 0.1572
 Mercury -37123-10-16 05:30 J -11837464.30 -11837464.27 -11837464.25 0.2658 0.2587
 Mercury -37120-04-16 07:54 J -11836551.28 -11836551.17 -11836551.06 0.2672 0.1285
 Mercury -37117-10-25 17:02 J -11835262.90 -11835262.79 -11835262.68 0.2665 0.1265
 Mercury -37114-04-26 20:09 J -11834349.67 -11834349.66 -11834349.64 0.2666 0.2647
 Mercury -37110-10-19 04:04 J -11832713.43 -11832713.33 -11832713.22 0.2660 0.1540
 Mercury -37107-04-19 05:45 J -11831800.38 -11831800.26 -11831800.13 0.2670 0.0317
 Mercury -37104-10-28 14:23 J -11830511.96 -11830511.90 -11830511.83 0.2666 0.2201
 Mercury -37097-10-21 02:23 J -11827962.52 -11827962.40 -11827962.27 0.2662 0.0522
 Mercury -37094-04-22 04:18 J -11827049.45 -11827049.32 -11827049.20 0.2669 0.0720
 Mercury -37087-04-14 15:21 J -11824499.94 -11824499.86 -11824499.78 0.2673 0.2071
 Mercury -37084-10-24 00:28 J -11823211.60 -11823211.48 -11823211.35 0.2663 0.0474
 Mercury -37081-04-24 02:52 J -11822298.48 -11822298.38 -11822298.28 0.2667 0.1765
 Mercury -37077-10-16 11:02 J -11820662.10 -11820662.04 -11820661.99 0.2659 0.2401
 Mercury -37074-04-17 13:11 J -11819749.06 -11819748.95 -11819748.83 0.2672 0.1112
 Mercury -37071-10-26 22:18 J -11818460.68 -11818460.57 -11818460.47 0.2665 0.1433
 Mercury -37064-10-19 09:35 J -11815911.21 -11815911.10 -11815910.99 0.2660 0.1353
 Mercury -37061-04-19 11:16 J -11814998.16 -11814998.03 -11814997.90 0.2670 0.0133
 Mercury -37058-10-29 19:54 J -11813709.73 -11813709.67 -11813709.62 0.2667 0.2368
 Mercury -37051-10-22 07:54 J -11811160.30 -11811160.17 -11811160.04 0.2662 0.0340
 Mercury -37048-04-22 09:35 J -11810247.22 -11810247.10 -11810246.97 0.2668 0.0906
 Mercury -37041-04-14 20:52 J -11807697.72 -11807697.63 -11807697.55 0.2673 0.1900
 Venus -37039-10-20 17:16 J -11806778.85 -11806778.78 -11806778.72 0.2661 0.2432

Mercury -37038-10-25 05:59 J -11806409.38 -11806409.25 -11806409.13 0.2663 0.0652

Mercury -37035-04-25 08:23 J -11805496.24 -11805496.15 -11805496.06 0.2667 0.1952

Mercury -37031-10-17 16:33 J -11803859.89 -11803859.81 -11803859.74 0.2659 0.2214

Venus -37031-10-18 04:47 J -11803859.42 -11803859.30 -11803859.17 0.2659 0.1657

Mercury -37028-04-17 18:42 J -11802946.84 -11802946.72 -11802946.60 0.2671 0.0938

Mercury -37025-10-27 03:35 J -11801658.45 -11801658.35 -11801658.25 0.2665 0.1607

Mercury -37018-10-20 15:06 J -11799108.99 -11799108.87 -11799108.76 0.2660 0.1174

Mercury -37015-04-20 16:47 J -11798195.93 -11798195.80 -11798195.67 0.2670 0.0071

Mercury -37012-10-30 01:11 J -11796907.49 -11796907.45 -11796907.42 0.2667 0.2534

Mercury -37008-04-13 04:33 J -11795646.31 -11795646.31 -11795646.30 0.2675 0.2666

Mercury -37005-10-22 13:26 J -11794358.07 -11794357.94 -11794357.82 0.2662 0.0179

Mercury -37002-04-23 15:06 J -11793444.99 -11793444.87 -11793444.75 0.2668 0.1091

37TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 37th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-36995-04-16 02:09 J	-11790895.50	-11790895.41	-11790895.31	0.2673	0.1725		
Mercury	-36992-10-25 11:16 J	-11789607.15	-11789607.03	-11789606.91	0.2664	0.0825		
Mercury	-36989-04-25 13:54 J	-11788694.00	-11788693.92	-11788693.84	0.2666	0.2146		
Mercury	-36985-10-17 22:04 J	-11787057.67	-11787057.58	-11787057.50	0.2659	0.2030		
Mercury	-36982-04-18 23:59 J	-11786144.62	-11786144.50	-11786144.37	0.2671	0.0759		
Mercury	-36979-10-28 08:52 J	-11784856.22	-11784856.13	-11784856.03	0.2665	0.1778		
Mercury	-36972-10-20 20:23 J	-11782306.77	-11782306.65	-11782306.53	0.2661	0.0990		

Mercury -36969-04-20 22:18 J -11781393.70 -11781393.57 -11781393.45 0.2669 0.0258

Mercury -36962-04-14 09:50 J -11778844.13 -11778844.09 -11778844.04 0.2674 0.2497

Mercury -36959-10-23 18:42 J -11777555.85 -11777555.72 -11777555.59 0.2662 0.0019

Mercury -36956-04-23 20:38 J -11776642.75 -11776642.64 -11776642.53 0.2668 0.1273

Mercury -36949-04-16 07:40 J -11774093.29 -11774093.18 -11774093.08 0.2673 0.1554

Mercury -36946-10-26 16:47 J -11772804.92 -11772804.80 -11772804.69 0.2664 0.1002

Mercury -36943-04-26 19:26 J -11771891.75 -11771891.69 -11771891.63 0.2666 0.2335

Mercury -36939-10-19 03:21 J -11770255.45 -11770255.36 -11770255.26 0.2659 0.1843

Mercury -36936-04-19 05:30 J -11769342.40 -11769342.27 -11769342.15 0.2671 0.0579

Mercury -36933-10-28 14:23 J -11768053.99 -11768053.90 -11768053.82 0.2666 0.1948

Mercury -36926-10-22 01:54 J -11765504.54 -11765504.42 -11765504.30 0.2661 0.0810

Mercury -36923-04-22 03:35 J -11764591.47 -11764591.35 -11764591.22 0.2669 0.0432

Mercury -36916-04-14 15:06 J -11762041.92 -11762041.87 -11762041.81 0.2674 0.2333

Mercury -36913-10-24 00:14 J -11760753.62 -11760753.49 -11760753.37 0.2663 0.0211

Mercury -36910-04-25 02:09 J -11759840.52 -11759840.41 -11759840.30 0.2667 0.1464

Venus -36909-04-15 19:26 J -11759483.85 -11759483.69 -11759483.54 0.2673 0.0274

Mercury -36903-04-17 12:57 J -11757291.07 -11757290.96 -11757290.85 0.2672 0.1380

Mercury -36900-10-26 22:04 J -11756002.70 -11756002.58 -11756002.47 0.2664 0.1172

Mercury -36897-04-27 00:57 J -11755089.50 -11755089.46 -11755089.42 0.2666 0.2529

Mercury -36893-10-19 08:52 J -11753453.23 -11753453.13 -11753453.03 0.2660 0.1657

Mercury -36890-04-20 11:02 J -11752540.17 -11752540.04 -11752539.92 0.2671 0.0408

Mercury -36887-10-29 19:40 J -11751251.76 -11751251.68 -11751251.61 0.2666 0.2115

Mercury -36880-10-22 07:26 J -11748702.32 -11748702.19 -11748702.07 0.2661 0.0628

Mercury -36877-04-22 09:06 J -11747789.24 -11747789.12 -11747788.99 0.2669 0.0613

Mercury -36870-04-15 20:38 J -11745239.71 -11745239.64 -11745239.57 0.2674 0.2161

Mercury -36867-10-25 05:30 J -11743951.40 -11743951.27 -11743951.14 0.2663 0.0372

Mercury -36864-04-25 07:40 J -11743038.28 -11743038.18 -11743038.08 0.2667 0.1651

Mercury -36860-10-17 15:35 J -11741401.88 -11741401.85 -11741401.81 0.2658 0.2526

Mercury -36857-04-17 18:14 J -11740488.85 -11740488.74 -11740488.62 0.2672 0.1207

Mercury -36854-10-28 03:21 J -11739200.47 -11739200.36 -11739200.25 0.2665 0.1345

Mercury -36847-10-20 14:23 J -11736651.01 -11736650.90 -11736650.79 0.2660 0.1472

Mercury -36844-04-20 16:18 J -11735737.95 -11735737.82 -11735737.69 0.2670 0.0221

Mercury -36841-10-30 00:57 J -11734449.52 -11734449.46 -11734449.40 0.2666 0.2285

Mercury -36834-10-23 12:42 J -11731900.09 -11731899.97 -11731899.84 0.2662 0.0455

Mercury -36831-04-23 14:38 J -11730987.02 -11730986.89 -11730986.77 0.2669 0.0797

Mercury -36824-04-16 01:54 J -11728437.50 -11728437.42 -11728437.34 0.2674 0.1992

Mercury -36821-10-25 11:02 J -11727149.17 -11727149.04 -11727148.92 0.2663 0.0557

Mercury -36818-04-26 13:11 J -11726236.04 -11726235.95 -11726235.86 0.2667 0.1847

Mercury -36814-10-18 21:06 J -11724599.68 -11724599.62 -11724599.56 0.2659 0.2339

Mercury -36811-04-18 23:45 J -11723686.63 -11723686.51 -11723686.39 0.2672 0.1029

Mercury -36808-10-28 08:38 J -11722398.24 -11722398.14 -11722398.03 0.2665 0.1517

Mercury -36801-10-20 19:54 J -11719848.78 -11719848.67 -11719848.56 0.2660 0.1285

Mercury -36798-04-21 21:50 J -11718935.72 -11718935.59 -11718935.47 0.2670 0.0086

Venus -36796-10-20 15:06 J -11718022.95 -11718022.87 -11718022.80 0.2660 0.2343

Mercury -36795-10-31 06:14 J -11717647.28 -11717647.24 -11717647.19 0.2667 0.2453

Venus -36788-10-18 02:38 J -11715103.51 -11715103.39 -11715103.27 0.2658 0.1742

Mercury -36788-10-23 18:14 J -11715097.87 -11715097.74 -11715097.61 0.2662 0.0264

Mercury -36785-04-23 20:09 J -11714184.78 -11714184.66 -11714184.54 0.2668 0.0988

Mercury -36778-04-17 07:11 J -11711635.29 -11711635.20 -11711635.10 0.2673 0.1822

Mercury -36775-10-26 16:18 J -11710346.94 -11710346.82 -11710346.70 0.2663 0.0725

Mercury -36772-04-26 18:42 J -11709433.80 -11709433.72 -11709433.64 0.2667 0.2034

Mercury -36768-10-19 02:38 J -11707797.46 -11707797.39 -11707797.31 0.2659 0.2148

Mercury -36765-04-19 05:02 J -11706884.41 -11706884.29 -11706884.17 0.2671 0.0856

Mercury -36762-10-29 14:09 J -11705596.01 -11705595.91 -11705595.82 0.2665 0.1690

Mercury -36755-10-22 01:26 J -11703046.56 -11703046.44 -11703046.32 0.2660 0.1103

Mercury -36752-04-22 03:06 J -11702133.50 -11702133.37 -11702133.24 0.2670 0.0145

Mercury -36749-10-31 11:30 J -11700845.04 -11700845.02 -11700845.00 0.2667 0.2621

Mercury -36745-04-14 15:06 J -11699583.90 -11699583.87 -11699583.84 0.2675 0.2590

Mercury -36742-10-24 23:45 J -11698295.64 -11698295.51 -11698295.38 0.2662 0.0091

Mercury -36739-04-25 01:26 J -11697382.55 -11697382.44 -11697382.32 0.2668 0.1174

Mercury -36732-04-17 12:42 J -11694833.07 -11694832.97 -11694832.88 0.2673 0.1651

Mercury -36729-10-26 21:35 J -11693544.72 -11693544.60 -11693544.48 0.2664 0.0907

Mercury -36726-04-28 00:14 J -11692631.56 -11692631.49 -11692631.42 0.2666 0.2230

Mercury -36722-10-20 08:09 J -11690995.24 -11690995.16 -11690995.07 0.2659 0.1960

Mercury -36719-04-20 10:33 J -11690082.19 -11690082.06 -11690081.94 0.2671 0.0680

Mercury -36716-10-29 19:26 J -11688793.78 -11688793.69 -11688793.60 0.2665 0.1858

Mercury -36709-10-22 06:57 J -11686244.34 -11686244.21 -11686244.09 0.2661 0.0919

Mercury -36706-04-23 08:38 J -11685331.27 -11685331.14 -11685331.01 0.2669 0.0326

Mercury -36699-04-15 20:23 J -11682781.70 -11682781.65 -11682781.60 0.2674 0.2418

Mercury -36696-10-25 05:02 J -11681493.42 -11681493.29 -11681493.16 0.2662 0.0114

Mercury -36693-04-25 06:57 J -11680580.32 -11680580.21 -11680580.10 0.2668 0.1356

Mercury -36686-04-18 17:59 J -11678030.85 -11678030.75 -11678030.64 0.2673 0.1475

Mercury -36683-10-28 03:06 J -11676742.49 -11676742.37 -11676742.25 0.2664 0.1077

Mercury -36680-04-28 05:45 J -11675829.31 -11675829.26 -11675829.21 0.2666 0.2421

Mercury -36676-10-20 13:40 J -11674193.02 -11674192.93 -11674192.83 0.2659 0.1773

Mercury -36673-04-20 15:50 J -11673279.97 -11673279.84 -11673279.71 0.2671 0.0500

Mercury -36670-10-31 00:42 J -11671991.55 -11671991.47 -11671991.39 0.2666 0.2034

Venus -36666-04-16 23:45 J -11670727.66 -11670727.51 -11670727.35 0.2674 0.0076

Mercury -36663-10-23 12:14 J -11669442.11 -11669441.99 -11669441.86 0.2661 0.0736

Mercury -36660-04-23 13:54 J -11668529.04 -11668528.92 -11668528.79 0.2669 0.0511

Mercury -36653-04-16 01:40 J -11665979.49 -11665979.43 -11665979.36 0.2674 0.2254

Mercury -36650-10-26 10:33 J -11664691.19 -11664691.06 -11664690.93 0.2663 0.0276

Mercury -36647-04-26 12:28 J -11663778.08 -11663777.98 -11663777.87 0.2668 0.1548

Mercury -36643-10-18 20:23 J -11662141.65 -11662141.65 -11662141.65 0.2658 0.2652

Mercury -36640-04-18 23:30 J -11661228.63 -11661228.52 -11661228.41 0.2672 0.1301

Mercury -36637-10-28 08:23 J -11659940.26 -11659940.15 -11659940.04 0.2664 0.1254

Mercury -36634-04-29 11:16 J -11659027.05 -11659027.03 -11659027.01 0.2666 0.2614

Mercury -36630-10-21 19:11 J -11657390.80 -11657390.70 -11657390.59 0.2660 0.1588

Mercury -36627-04-21 21:21 J -11656477.74 -11656477.61 -11656477.48 0.2671 0.0322

Mercury -36624-10-31 06:14 J -11655189.31 -11655189.24 -11655189.18 0.2666 0.2202

Mercury -36617-10-23 17:45 J -11652639.89 -11652639.76 -11652639.63 0.2661 0.0552

Mercury -36614-04-24 19:26 J -11651726.81 -11651726.69 -11651726.56 0.2669 0.0693

Mercury -36607-04-17 07:11 J -11649177.28 -11649177.20 -11649177.13 0.2674 0.2080

Mercury -36604-10-26 15:50 J -11647888.96 -11647888.84 -11647888.71 0.2663 0.0457

Mercury -36601-04-26 17:59 J -11646975.85 -11646975.75 -11646975.65 0.2667 0.1733

Mercury -36597-10-19 01:54 J -11645339.47 -11645339.42 -11645339.37 0.2658 0.2462

Mercury -36594-04-20 04:47 J -11644426.42 -11644426.30 -11644426.19 0.2672 0.1127

Mercury -36591-10-29 13:54 J -11643138.03 -11643137.92 -11643137.82 0.2665 0.1430

Mercury -36584-10-22 00:42 J -11640588.58 -11640588.47 -11640588.36 0.2660 0.1401

Mercury -36581-04-22 02:38 J -11639675.52 -11639675.39 -11639675.26 0.2670 0.0150

Mercury -36578-11-01 11:30 J -11638387.08 -11638387.02 -11638386.97 0.2666 0.2373

Mercury -36571-10-24 23:16 J -11635837.66 -11635837.53 -11635837.41 0.2661 0.0382

Mercury -36568-04-25 00:57 J -11634924.58 -11634924.46 -11634924.34 0.2669 0.0881

Mercury -36561-04-17 12:28 J -11632375.07 -11632374.98 -11632374.90 0.2673 0.1914

Mercury -36558-10-27 21:21 J -11631086.74 -11631086.61 -11631086.49 0.2663 0.0632

Mercury -36555-04-27 23:30 J -11630173.61 -11630173.52 -11630173.43 0.2667 0.1928

Venus -36553-10-20 12:57 J -11629267.04 -11629266.96 -11629266.87 0.2659 0.2267

Mercury -36551-10-20 07:26 J -11628537.25 -11628537.19 -11628537.12 0.2659 0.2269

Mercury -36548-04-20 10:04 J -11627624.20 -11627624.08 -11627623.96 0.2672 0.0950

Venus -36545-10-18 00:28 J -11626347.59 -11626347.48 -11626347.36 0.2657 0.1810

Mercury -36545-10-29 19:11 J -11626335.80 -11626335.70 -11626335.60 0.2665 0.1600

Mercury -36538-10-23 06:14 J -11623786.36 -11623786.24 -11623786.13 0.2660 0.1215

Mercury -36535-04-23 08:09 J -11622873.29 -11622873.16 -11622873.03 0.2670 0.0045

Mercury -36532-11-01 16:47 J -11621584.83 -11621584.80 -11621584.76 0.2667 0.2541

Mercury -36525-10-25 04:33 J -11619035.44 -11619035.31 -11619035.18 0.2662 0.0191

Mercury -36522-04-26 06:28 J -11618122.35 -11618122.23 -11618122.11 0.2668 0.1068

Mercury -36515-04-18 17:45 J -11615572.85 -11615572.76 -11615572.66 0.2673 0.1741

Mercury -36512-10-28 02:38 J -11614284.51 -11614284.39 -11614284.27 0.2663 0.0807

Mercury -36509-04-28 05:02 J -11613371.37 -11613371.29 -11613371.21 0.2667 0.2121

Mercury -36505-10-20 12:57 J -11611735.04 -11611734.96 -11611734.88 0.2659 0.2081

Mercury -36502-04-21 15:35 J -11610821.98 -11610821.85 -11610821.73 0.2671 0.0777

Mercury -36499-10-31 00:28 J -11609533.57 -11609533.48 -11609533.38 0.2665 0.1776

Mercury -36492-10-23 11:45 J -11606984.13 -11606984.01 -11606983.89 0.2660 0.1030

Mercury -36489-04-23 13:26 J -11606071.06 -11606070.94 -11606070.81 0.2670 0.0243

Mercury -36482-04-17 01:40 J -11603521.47 -11603521.43 -11603521.39 0.2675 0.2514

Mercury -36479-10-26 10:04 J -11602233.21 -11602233.08 -11602232.95 0.2662 0.0034

Mercury -36476-04-26 11:59 J -11601320.12 -11601320.00 -11601319.89 0.2668 0.1257

Mercury -36469-04-18 23:02 J -11598770.64 -11598770.54 -11598770.43 0.2673 0.1570

Mercury -36466-10-29 08:09 J -11597482.28 -11597482.16 -11597482.04 0.2664 0.0985

Mercury -36463-04-29 10:33 J -11596569.12 -11596569.06 -11596569.00 0.2666 0.2315

Mercury -36459-10-21 18:28 J -11594932.82 -11594932.73 -11594932.64 0.2659 0.1892

Mercury -36456-04-21 20:52 J -11594019.75 -11594019.63 -11594019.50 0.2671 0.0596

Mercury -36453-10-31 05:59 J -11592731.34 -11592731.25 -11592731.17 0.2665 0.1946

Mercury -36446-10-24 17:02 J -11590181.91 -11590181.79 -11590181.66 0.2661 0.0849

Mercury -36443-04-24 18:57 J -11589268.84 -11589268.71 -11589268.58 0.2669 0.0411

Mercury -36436-04-17 06:57 J -11586719.27 -11586719.21 -11586719.15 0.2674 0.2341

Mercury -36433-10-26 15:21 J -11585430.98 -11585430.86 -11585430.73 0.2662 0.0192

Mercury -36430-04-27 17:16 J -11584517.89 -11584517.78 -11584517.67 0.2668 0.1444

Venus -36423-04-17 04:04 J -11581971.48 -11581971.33 -11581971.17 0.2674 0.0364

Mercury -36423-04-20 04:33 J -11581968.42 -11581968.31 -11581968.21 0.2673 0.1398

Mercury -36420-10-29 13:26 J -11580680.05 -11580679.94 -11580679.82 0.2664 0.1162

Mercury -36417-04-29 16:04 J -11579766.87 -11579766.83 -11579766.79 0.2666 0.2504

Mercury -36413-10-21 23:59 J -11578130.60 -11578130.50 -11578130.40 0.2659 0.1703

Mercury -36410-04-23 02:23 J -11577217.53 -11577217.40 -11577217.28 0.2671 0.0428

Mercury -36407-11-01 11:16 J -11575929.11 -11575929.03 -11575928.96 0.2666 0.2119

Mercury -36400-10-24 22:33 J -11573379.68 -11573379.56 -11573379.43 0.2661 0.0662

Mercury -36397-04-25 00:28 J -11572466.61 -11572466.48 -11572466.36 0.2669 0.0594

Mercury -36390-04-18 12:14 J -11569917.06 -11569916.99 -11569916.92 0.2674 0.2175

Mercury -36387-10-27 20:52 J -11568628.76 -11568628.63 -11568628.50 0.2663 0.0354

Mercury -36384-04-27 22:47 J -11567715.65 -11567715.55 -11567715.45 0.2668 0.1632

Mercury -36380-10-20 06:42 J -11566079.25 -11566079.22 -11566079.19 0.2658 0.2584

Mercury -36377-04-20 09:50 J -11565166.20 -11565166.09 -11565165.98 0.2672 0.1221

Mercury -36374-10-30 18:57 J -11563877.82 -11563877.71 -11563877.60 0.2664 0.1339

Mercury -36367-10-23 05:30 J -11561328.38 -11561328.27 -11561328.16 0.2660 0.1515

Mercury -36364-04-23 07:40 J -11560415.31 -11560415.18 -11560415.05 0.2671 0.0239

Mercury -36361-11-01 16:33 J -11559126.87 -11559126.81 -11559126.75 0.2666 0.2287

Mercury -36354-10-26 04:04 J -11556577.46 -11556577.33 -11556577.20 0.2661 0.0477

Mercury -36351-04-26 05:45 J -11555664.38 -11555664.26 -11555664.13 0.2669 0.0781

Mercury -36344-04-18 17:30 J -11553114.85 -11553114.77 -11553114.68 0.2674 0.2003

Mercury -36341-10-28 02:23 J -11551826.53 -11551826.40 -11551826.28 0.2663 0.0539

Mercury -36338-04-29 04:18 J -11550913.41 -11550913.32 -11550913.23 0.2667 0.1820

Mercury -36334-10-21 12:14 J -11549277.05 -11549276.99 -11549276.94 0.2658 0.2396

Mercury -36331-04-21 15:06 J -11548363.98 -11548363.87 -11548363.75 0.2672 0.1049

Mercury -36328-10-31 00:14 J -11547075.59 -11547075.49 -11547075.38 0.2665 0.1512

Mercury -36321-10-23 11:02 J -11544526.15 -11544526.04 -11544525.93 0.2660 0.1329

Mercury -36318-04-24 13:11 J -11543613.08 -11543612.95 -11543612.83 0.2670 0.0092

Mercury -36315-11-02 21:50 J -11542324.63 -11542324.59 -11542324.54 0.2666 0.2462

Venus -36310-10-21 10:47 J -11540511.14 -11540511.05 -11540510.96 0.2658 0.2189

Mercury -36308-10-26 09:35 J -11539775.23 -11539775.10 -11539774.97 0.2661 0.0301

Mercury -36305-04-26 11:16 J -11538862.15 -11538862.03 -11538861.91 0.2669 0.0963

Venus -36302-10-18 22:18 J -11537591.68 -11537591.57 -11537591.46 0.2656 0.1899

Mercury -36298-04-19 23:02 J -11536312.64 -11536312.54 -11536312.45 0.2674 0.1835

Mercury -36295-10-29 07:40 J -11535024.30 -11535024.18 -11535024.05 0.2663 0.0714

Mercury -36292-04-29 09:50 J -11534111.17 -11534111.09 -11534111.01 0.2667 0.2011

Mercury -36288-10-21 17:45 J -11532474.83 -11532474.76 -11532474.69 0.2659 0.2204

Mercury -36285-04-21 20:38 J -11531561.76 -11531561.64 -11531561.52 0.2672 0.0864

Mercury -36282-11-01 05:30 J -11530273.36 -11530273.27 -11530273.17 0.2665 0.1688

Mercury -36275-10-24 16:33 J -11527723.93 -11527723.81 -11527723.70 0.2660 0.1146

Mercury -36272-04-24 18:28 J -11526810.85 -11526810.73 -11526810.60 0.2670 0.0160

Mercury -36269-11-03 03:21 J -11525522.38 -11525522.36 -11525522.35 0.2667 0.2630

Mercury -36265-04-17 06:42 J -11524261.24 -11524261.22 -11524261.19 0.2675 0.2600

Mercury -36262-10-27 14:52 J -11522973.01 -11522972.88 -11522972.75 0.2662 0.0125

Mercury -36259-04-27 16:47 J -11522059.92 -11522059.80 -11522059.68 0.2668 0.1151

Mercury -36252-04-20 04:18 J -11519510.42 -11519510.32 -11519510.22 0.2673 0.1658

Mercury -36249-10-29 13:11 J -11518222.07 -11518221.95 -11518221.83 0.2663 0.0892

Mercury -36246-04-30 15:21 J -11517308.94 -11517308.86 -11517308.79 0.2667 0.2202

Mercury -36242-10-22 23:16 J -11515672.62 -11515672.53 -11515672.45 0.2659 0.2015

Mercury -36239-04-23 01:54 J -11514759.54 -11514759.42 -11514759.29 0.2671 0.0694

Mercury -36236-11-01 11:02 J -11513471.13 -11513471.04 -11513470.95 0.2665 0.1862

Mercury -36229-10-24 21:50 J -11510921.71 -11510921.59 -11510921.46 0.2660 0.0961

Mercury -36226-04-25 23:59 J -11510008.63 -11510008.50 -11510008.37 0.2670 0.0312

Mercury -36219-04-18 11:59 J -11507459.04 -11507459.00 -11507458.95 0.2675 0.2435

Mercury -36216-10-27 20:23 J -11506170.78 -11506170.65 -11506170.52 0.2662 0.0070

Mercury -36213-04-27 22:18 J -11505257.68 -11505257.57 -11505257.46 0.2668 0.1340

Mercury -36206-04-21 09:35 J -11502708.20 -11502708.10 -11502708.00 0.2673 0.1489

Mercury -36203-10-30 18:28 J -11501419.85 -11501419.73 -11501419.61 0.2664 0.1068

Mercury -36200-04-30 20:52 J -11500506.69 -11500506.63 -11500506.58 0.2666 0.2398

Mercury -36196-10-23 04:47 J -11498870.40 -11498870.30 -11498870.21 0.2659 0.1821

Mercury -36193-04-23 07:26 J -11497957.32 -11497957.19 -11497957.07 0.2671 0.0510

Mercury -36190-11-02 16:18 J -11496668.90 -11496668.82 -11496668.74 0.2665 0.2033

Mercury -36183-10-26 03:21 J -11494119.48 -11494119.36 -11494119.23 0.2661 0.0774

Venus -36180-04-17 08:38 J -11493215.29 -11493215.14 -11493214.99 0.2675 0.0669

Mercury -36180-04-26 05:30 J -11493206.40 -11493206.27 -11493206.15 0.2669 0.0501

Mercury -36173-04-18 17:30 J -11490656.84 -11490656.77 -11490656.71 0.2674 0.2263

Venus -36172-04-15 02:52 J -11490295.43 -11490295.38 -11490295.33 0.2677 0.2517

Mercury -36170-10-29 01:40 J -11489368.55 -11489368.43 -11489368.30 0.2662 0.0269

Mercury -36167-04-29 03:35 J -11488455.45 -11488455.35 -11488455.24 0.2668 0.1529

Mercury -36160-04-21 14:52 J -11485905.99 -11485905.88 -11485905.77 0.2673 0.1316

Mercury -36157-10-30 23:45 J -11484617.62 -11484617.51 -11484617.39 0.2664 0.1246

Mercury -36154-05-02 02:23 J -11483704.43 -11483704.40 -11483704.37 0.2666 0.2593

Mercury -36150-10-24 10:18 J -11482068.17 -11482068.07 -11482067.97 0.2659 0.1635

Mercury -36147-04-24 12:42 J -11481155.10 -11481154.97 -11481154.84 0.2671 0.0336

Mercury -36144-11-02 21:35 J -11479866.67 -11479866.60 -11479866.53 0.2666 0.2207

Mercury -36137-10-26 08:52 J -11477317.25 -11477317.13 -11477317.00 0.2661 0.0585

Mercury -36134-04-27 10:47 J -11476404.17 -11476404.05 -11476403.93 0.2669 0.0677

Mercury -36127-04-19 22:47 J -11473854.63 -11473854.55 -11473854.48 0.2674 0.2097

Mercury -36124-10-29 07:11 J -11472566.33 -11472566.20 -11472566.07 0.2663 0.0436

Mercury -36121-04-29 09:06 J -11471653.22 -11471653.12 -11471653.02 0.2668 0.1719

Mercury -36117-10-21 16:47 J -11470016.84 -11470016.80 -11470016.76 0.2658 0.2520

Mercury -36114-04-22 20:23 J -11469103.77 -11469103.65 -11469103.54 0.2672 0.1138

Mercury -36111-11-01 05:16 J -11467815.39 -11467815.28 -11467815.17 0.2664 0.1421

Mercury -36104-10-24 15:50 J -11465265.95 -11465265.84 -11465265.73 0.2660 0.1444

Mercury -36101-04-24 18:14 J -11464352.87 -11464352.74 -11464352.62 0.2671 0.0162

Mercury -36098-11-04 02:52 J -11463064.43 -11463064.38 -11463064.32 0.2666 0.2378

Mercury -36091-10-27 14:23 J -11460515.03 -11460514.90 -11460514.77 0.2661 0.0400

Mercury -36088-04-27 16:18 J -11459601.95 -11459601.82 -11459601.70 0.2669 0.0863

Mercury -36081-04-20 04:04 J -11457052.41 -11457052.33 -11457052.24 0.2674 0.1920

Mercury -36078-10-30 12:42 J -11455764.10 -11455763.97 -11455763.85 0.2663 0.0616

Mercury -36075-04-30 14:38 J -11454850.98 -11454850.89 -11454850.80 0.2667 0.1906

Mercury -36071-10-22 22:18 J -11453214.63 -11453214.57 -11453214.51 0.2658 0.2329

Mercury -36068-04-23 01:40 J -11452301.55 -11452301.43 -11452301.31 0.2672 0.0964

Venus -36067-10-21 08:23 J -11451755.25 -11451755.15 -11451755.05 0.2657 0.2096

Mercury -36065-11-01 10:33 J -11451013.16 -11451013.06 -11451012.95 0.2665 0.1600

Venus -36059-10-18 19:54 J -11448835.78 -11448835.67 -11448835.56 0.2656 0.1978

Mercury -36058-10-25 21:21 J -11448463.73 -11448463.61 -11448463.50 0.2660 0.1258

Mercury -36055-04-25 23:30 J -11447550.65 -11447550.52 -11447550.39 0.2670 0.0027

Mercury -36052-11-04 08:23 J -11446262.18 -11446262.15 -11446262.12 0.2666 0.2551

Mercury -36045-10-27 19:54 J -11443712.80 -11443712.67 -11443712.54 0.2661 0.0222

Mercury -36042-04-28 21:35 J -11442799.71 -11442799.60 -11442799.48 0.2669 0.1053

Mercury -36035-04-21 09:21 J -11440250.20 -11440250.11 -11440250.01 0.2674 0.1753

Mercury -36032-10-30 17:59 J -11438961.87 -11438961.75 -11438961.62 0.2663 0.0797

Mercury -36029-04-30 20:09 J -11438048.74 -11438048.66 -11438048.58 0.2667 0.2098

Mercury -36025-10-23 03:50 J -11436412.41 -11436412.34 -11436412.26 0.2658 0.2135

Mercury -36022-04-24 06:57 J -11435499.33 -11435499.21 -11435499.08 0.2672 0.0789

Mercury -36019-11-02 16:04 J -11434210.93 -11434210.83 -11434210.74 0.2665 0.1775

Mercury -36012-10-26 02:52 J -11431661.50 -11431661.38 -11431661.26 0.2660 0.1069

Mercury -36009-04-26 05:02 J -11430748.42 -11430748.29 -11430748.17 0.2670 0.0223

Mercury -36002-04-19 17:16 J -11428198.81 -11428198.78 -11428198.74 0.2675 0.2520

36TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 36th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-35999-10-29 01:11 J	-11426910.58	-11426910.45	-11426910.32	0.2662	0.0062		
Mercury	-35996-04-29 03:06 J	-11425997.48	-11425997.37	-11425997.26	0.2668	0.1232		
Mercury	-35989-04-21 14:52 J	-11423447.98	-11423447.88	-11423447.78	0.2673	0.1576		
Mercury	-35986-10-31 23:30 J	-11422159.64	-11422159.52	-11422159.40	0.2663	0.0975		
Mercury	-35983-05-02 01:40 J	-11421246.50	-11421246.43	-11421246.37	0.2667	0.2292		
Mercury	-35979-10-24 09:21 J	-11419610.19	-11419610.11	-11419610.02	0.2659	0.1948		
Mercury	-35976-04-24 12:28 J	-11418697.11	-11418696.98	-11418696.86	0.2672	0.0609		
Mercury	-35973-11-02 21:21 J	-11417408.69	-11417408.61	-11417408.52	0.2665	0.1949		
Mercury	-35966-10-27 08:09 J	-11414859.28	-11414859.16	-11414859.03	0.2660	0.0885		
Mercury	-35963-04-27 10:18 J	-11413946.20	-11413946.07	-11413945.94	0.2670	0.0394		
Mercury	-35956-04-19 22:33 J	-11411396.61	-11411396.56	-11411396.50	0.2675	0.2353		

Mercury -35953-10-29 06:42 J -11410108.35 -11410108.22 -11410108.09 0.2662 0.0152

Mercury -35950-04-30 08:38 J -11409195.25 -11409195.14 -11409195.03 0.2668 0.1426

Mercury -35943-04-22 20:09 J -11406645.77 -11406645.66 -11406645.55 0.2673 0.1404

Mercury -35940-11-01 04:47 J -11405357.41 -11405357.30 -11405357.18 0.2664 0.1154

Venus -35937-04-17 12:57 J -11404459.11 -11404458.96 -11404458.82 0.2676 0.0970

Mercury -35937-05-02 07:11 J -11404444.25 -11404444.20 -11404444.16 0.2666 0.2483

Mercury -35933-10-24 14:52 J -11402807.97 -11402807.88 -11402807.78 0.2659 0.1754

Mercury -35930-04-25 17:45 J -11401894.88 -11401894.76 -11401894.63 0.2671 0.0430

Venus -35929-04-15 07:26 J -11401539.27 -11401539.19 -11401539.10 0.2677 0.2199

Mercury -35927-11-04 02:38 J -11400606.46 -11400606.39 -11400606.31 0.2665 0.2125

Mercury -35920-10-27 13:40 J -11398057.05 -11398056.93 -11398056.80 0.2661 0.0696

Mercury -35917-04-27 15:50 J -11397143.97 -11397143.84 -11397143.72 0.2670 0.0579

Mercury -35910-04-21 04:04 J -11394594.40 -11394594.33 -11394594.26 0.2674 0.2181

Mercury -35907-10-30 12:14 J -11393306.12 -11393305.99 -11393305.87 0.2662 0.0344

Mercury -35904-04-30 14:09 J -11392393.02 -11392392.91 -11392392.81 0.2668 0.1616

Mercury -35900-10-22 21:35 J -11390756.61 -11390756.60 -11390756.60 0.2658 0.2647

Mercury -35897-04-23 01:26 J -11389843.55 -11389843.44 -11389843.33 0.2673 0.1230

Mercury -35894-11-02 10:18 J -11388555.18 -11388555.07 -11388554.96 0.2664 0.1332

Mercury -35887-10-25 20:23 J -11386005.75 -11386005.65 -11386005.54 0.2659 0.1565

Mercury -35884-04-25 23:16 J -11385092.66 -11385092.53 -11385092.41 0.2671 0.0268

Mercury -35881-11-04 08:09 J -11383804.22 -11383804.16 -11383804.10 0.2666 0.2297

Mercury -35874-10-28 19:11 J -11381254.83 -11381254.70 -11381254.57 0.2661 0.0508

Mercury -35871-04-28 21:06 J -11380341.74 -11380341.62 -11380341.49 0.2669 0.0773

Mercury -35864-04-21 09:21 J -11377792.19 -11377792.11 -11377792.03 0.2674 0.2014

Mercury -35861-10-30 17:30 J -11376503.90 -11376503.77 -11376503.64 0.2663 0.0515

Mercury -35858-05-01 19:40 J -11375590.78 -11375590.68 -11375590.59 0.2668 0.1808

Mercury -35854-10-24 03:06 J -11373954.42 -11373954.37 -11373954.32 0.2658 0.2451

Mercury -35851-04-24 06:42 J -11373041.33 -11373041.22 -11373041.10 0.2672 0.1058

Mercury -35848-11-02 15:35 J -11371752.95 -11371752.85 -11371752.74 0.2664 0.1508

Mercury -35841-10-26 02:09 J -11369203.53 -11369203.41 -11369203.30 0.2660 0.1371

Mercury -35838-04-27 04:33 J -11368290.44 -11368290.31 -11368290.18 0.2671 0.0073

Mercury -35835-11-05 13:26 J -11367001.98 -11367001.94 -11367001.89 0.2666 0.2470

Mercury -35828-10-29 00:42 J -11364452.60 -11364452.47 -11364452.34 0.2661 0.0327

Mercury -35825-04-29 02:38 J -11363539.51 -11363539.39 -11363539.27 0.2669 0.0947

Venus -35824-10-21 06:14 J -11362999.35 -11362999.24 -11362999.13 0.2656 0.2007

Mercury -35818-04-22 14:38 J -11360989.98 -11360989.89 -11360989.80 0.2674 0.1841

Venus -35816-10-18 17:45 J -11360079.86 -11360079.76 -11360079.66 0.2655 0.2066

Mercury -35815-10-31 23:02 J -11359701.67 -11359701.54 -11359701.42 0.2663 0.0700

Mercury -35812-05-02 00:57 J -11358788.54 -11358788.46 -11358788.37 0.2667 0.1998

Mercury -35808-10-24 08:38 J -11357152.21 -11357152.14 -11357152.07 0.2658 0.2257

Mercury -35805-04-24 12:14 J -11356239.11 -11356238.99 -11356238.87 0.2672 0.0884

Mercury -35802-11-03 21:06 J -11354950.72 -11354950.62 -11354950.53 0.2665 0.1686

Mercury -35795-10-27 07:26 J -11352401.30 -11352401.19 -11352401.07 0.2660 0.1185

Mercury -35792-04-27 10:04 J -11351488.21 -11351488.08 -11351487.96 0.2670 0.0149

Mercury -35789-11-05 18:42 J -11350199.73 -11350199.72 -11350199.70 0.2666 0.2643

Mercury -35785-04-19 22:33 J -11348938.58 -11348938.56 -11348938.53 0.2675 0.2606

Mercury -35782-10-30 06:14 J -11347650.37 -11347650.24 -11347650.11 0.2661 0.0151

Mercury -35779-04-30 08:09 J -11346737.28 -11346737.16 -11346737.05 0.2669 0.1140

Mercury -35772-04-22 19:54 J -11344187.77 -11344187.67 -11344187.57 0.2674 0.1670

Mercury -35769-11-01 04:18 J -11342899.44 -11342899.32 -11342899.19 0.2663 0.0884

Mercury -35766-05-03 06:28 J -11341986.30 -11341986.23 -11341986.16 0.2667 0.2188

Mercury -35762-10-25 14:09 J -11340349.99 -11340349.91 -11340349.83 0.2658 0.2063

Mercury -35759-04-25 17:30 J -11339436.89 -11339436.77 -11339436.65 0.2672 0.0701

Mercury -35756-11-04 02:23 J -11338148.49 -11338148.40 -11338148.31 0.2665 0.1863

Mercury -35749-10-27 12:57 J -11335599.08 -11335598.96 -11335598.84 0.2660 0.0992

Mercury -35746-04-28 15:21 J -11334685.99 -11334685.86 -11334685.73 0.2670 0.0298

Mercury -35739-04-21 03:50 J -11332136.38 -11332136.34 -11332136.29 0.2675 0.2438

Mercury -35736-10-30 11:30 J -11330848.15 -11330848.02 -11330847.89 0.2662 0.0074

Mercury -35733-04-30 13:26 J -11329935.05 -11329934.94 -11329934.83 0.2668 0.1323

Mercury -35726-04-24 01:11 J -11327385.55 -11327385.45 -11327385.34 0.2673 0.1496

Mercury -35723-11-02 09:50 J -11326097.21 -11326097.09 -11326096.97 0.2663 0.1062

Mercury -35720-05-03 11:59 J -11325184.06 -11325184.00 -11325183.95 0.2667 0.2381

Mercury -35716-10-25 19:40 J -11323547.77 -11323547.68 -11323547.59 0.2659 0.1873

Mercury -35713-04-25 22:47 J -11322634.67 -11322634.55 -11322634.42 0.2672 0.0528

Mercury -35710-11-05 07:54 J -11321346.25 -11321346.17 -11321346.09 0.2665 0.2042

Mercury -35703-10-28 18:28 J -11318796.85 -11318796.73 -11318796.60 0.2660 0.0805

Mercury -35700-04-28 20:52 J -11317883.76 -11317883.63 -11317883.51 0.2670 0.0487

Venus -35694-04-18 17:16 J -11315702.92 -11315702.78 -11315702.65 0.2677 0.1276

Mercury -35693-04-21 09:07 J -11315334.18 -11315334.12 -11315334.05 0.2675 0.2270

Mercury -35690-10-31 17:02 J -11314045.92 -11314045.79 -11314045.66 0.2662 0.0235

Mercury -35687-05-01 18:57 J -11313132.81 -11313132.71 -11313132.60 0.2668 0.1514

Venus -35686-04-16 11:45 J -11312783.12 -11312783.01 -11312782.90 0.2678 0.1904

Mercury -35680-04-24 06:28 J -11310583.33 -11310583.23 -11310583.12 0.2673 0.1326

Mercury -35677-11-02 15:07 J -11309294.98 -11309294.87 -11309294.75 0.2664 0.1243

Mercury -35674-05-04 17:31 J -11308381.80 -11308381.77 -11308381.74 0.2666 0.2574

Mercury -35670-10-27 01:11 J -11306745.55 -11306745.45 -11306745.35 0.2659 0.1680

Mercury -35667-04-27 04:19 J -11305832.45 -11305832.32 -11305832.19 0.2671 0.0340

Mercury -35664-11-05 13:11 J -11304544.02 -11304543.95 -11304543.88 0.2665 0.2215

Mercury -35657-10-28 23:59 J -11301994.63 -11301994.50 -11301994.37 0.2660 0.0617

Mercury -35654-04-30 02:09 J -11301081.53 -11301081.41 -11301081.28 0.2670 0.0666

Mercury -35647-04-22 14:23 J -11298531.97 -11298531.90 -11298531.82 0.2674 0.2103

Mercury -35644-10-31 22:33 J -11297243.69 -11297243.56 -11297243.44 0.2662 0.0426

Mercury -35641-05-02 00:28 J -11296330.58 -11296330.48 -11296330.39 0.2668 0.1702

Mercury -35637-10-24 07:40 J -11294694.21 -11294694.18 -11294694.15 0.2658 0.2579

Mercury -35634-04-25 11:59 J -11293781.12 -11293781.00 -11293780.89 0.2673 0.1145

Mercury -35631-11-03 20:38 J -11292492.75 -11292492.64 -11292492.53 0.2664 0.1420

Mercury -35624-10-27 06:43 J -11289943.33 -11289943.22 -11289943.11 0.2659 0.1491

Mercury -35621-04-27 09:35 J -11289030.23 -11289030.10 -11289029.97 0.2671 0.0168

Mercury -35618-11-06 18:28 J -11287741.78 -11287741.73 -11287741.68 0.2666 0.2390

Mercury -35611-10-30 05:31 J -11285192.40 -11285192.27 -11285192.14 0.2661 0.0429

Mercury -35608-04-30 07:40 J -11284279.30 -11284279.18 -11284279.06 0.2669 0.0854

Mercury -35601-04-22 19:55 J -11281729.76 -11281729.67 -11281729.59 0.2674 0.1932

Mercury -35598-11-02 03:50 J -11280441.46 -11280441.34 -11280441.21 0.2662 0.0605

Mercury -35595-05-03 05:59 J -11279528.34 -11279528.25 -11279528.16 0.2668 0.1898

Mercury -35591-10-25 13:11 J -11277892.00 -11277891.95 -11277891.89 0.2658 0.2385

Mercury -35588-04-25 17:16 J -11276978.90 -11276978.78 -11276978.66 0.2672 0.0969

Mercury -35585-11-04 01:55 J -11275690.52 -11275690.42 -11275690.31 0.2664 0.1600

Venus -35581-10-21 03:50 J -11274243.45 -11274243.34 -11274243.23 0.2655 0.1920

Mercury -35578-10-28 12:14 J -11273141.10 -11273140.99 -11273140.88 0.2659 0.1295

Mercury -35575-04-28 15:07 J -11272228.00 -11272227.87 -11272227.74 0.2671 0.0052

Venus -35573-10-18 15:07 J -11271323.96 -11271323.87 -11271323.77 0.2654 0.2158

Mercury -35572-11-06 23:45 J -11270939.54 -11270939.51 -11270939.47 0.2666 0.2567

Mercury -35565-10-30 11:02 J -11268390.17 -11268390.04 -11268389.91 0.2661 0.0258

Mercury -35562-05-01 12:57 J -11267477.07 -11267476.96 -11267476.84 0.2669 0.1042

Mercury -35555-04-24 01:11 J -11264927.55 -11264927.45 -11264927.36 0.2674 0.1757

Mercury -35552-11-02 09:21 J -11263639.23 -11263639.11 -11263638.99 0.2663 0.0783

Mercury -35549-05-03 11:16 J -11262726.11 -11262726.03 -11262725.95 0.2667 0.2088

Mercury -35545-10-25 18:43 J -11261089.79 -11261089.72 -11261089.64 0.2658 0.2188

Mercury -35542-04-26 22:33 J -11260176.68 -11260176.56 -11260176.44 0.2672 0.0797

Mercury -35539-11-05 07:26 J -11258888.28 -11258888.19 -11258888.10 0.2665 0.1778

Mercury -35532-10-28 17:45 J -11256338.88 -11256338.76 -11256338.64 0.2660 0.1107

Mercury -35529-04-28 20:23 J -11255425.78 -11255425.65 -11255425.52 0.2670 0.0204

Mercury -35522-04-22 09:07 J -11252876.16 -11252876.12 -11252876.08 0.2675 0.2526

Mercury -35519-10-31 16:19 J -11251587.95 -11251587.82 -11251587.69 0.2661 0.0105

Mercury -35516-05-01 18:28 J -11250674.84 -11250674.73 -11250674.61 0.2669 0.1230

Mercury -35509-04-24 06:28 J -11248125.33 -11248125.23 -11248125.13 0.2674 0.1587

Mercury -35506-11-03 14:38 J -11246837.01 -11246836.89 -11246836.77 0.2663 0.0969

Mercury -35503-05-04 16:47 J -11245923.86 -11245923.80 -11245923.73 0.2667 0.2281

Mercury -35499-10-27 00:28 J -11244287.57 -11244287.48 -11244287.40 0.2658 0.1993

Mercury -35496-04-27 04:04 J -11243374.46 -11243374.33 -11243374.21 0.2672 0.0615

Mercury -35493-11-05 12:43 J -11242086.05 -11242085.97 -11242085.88 0.2665 0.1954

Mercury -35486-10-29 23:16 J -11239536.65 -11239536.53 -11239536.41 0.2660 0.0913

Mercury -35483-04-30 01:55 J -11238623.55 -11238623.42 -11238623.30 0.2670 0.0393

Mercury -35476-04-22 14:23 J -11236073.95 -11236073.90 -11236073.84 0.2675 0.2357

Mercury -35473-10-31 21:50 J -11234785.72 -11234785.59 -11234785.46 0.2662 0.0136

Mercury -35470-05-02 23:59 J -11233872.61 -11233872.50 -11233872.40 0.2668 0.1415

Mercury -35463-04-25 11:45 J -11231323.12 -11231323.01 -11231322.90 0.2673 0.1411

Mercury -35460-11-03 20:09 J -11230034.78 -11230034.66 -11230034.54 0.2663 0.1148

Mercury -35457-05-04 22:19 J -11229121.61 -11229121.57 -11229121.52 0.2667 0.2476

Mercury -35453-10-27 05:59 J -11227485.35 -11227485.25 -11227485.16 0.2659 0.1801

Venus -35451-04-18 21:50 J -11226946.72 -11226946.59 -11226946.47 0.2678 0.1579

Mercury -35450-04-28 09:21 J -11226572.24 -11226572.11 -11226571.99 0.2672 0.0437

Mercury -35447-11-06 18:14 J -11225283.82 -11225283.74 -11225283.67 0.2665 0.2133

Venus -35443-04-16 16:19 J -11224026.94 -11224026.82 -11224026.70 0.2679 0.1578

Mercury -35440-10-30 04:47 J -11222734.43 -11222734.30 -11222734.17 0.2660 0.0724

Mercury -35437-04-30 07:11 J -11221821.32 -11221821.20 -11221821.07 0.2670 0.0568

Mercury -35430-04-23 19:40 J -11219271.75 -11219271.68 -11219271.61 0.2675 0.2187

Mercury -35427-11-02 03:21 J -11217983.49 -11217983.36 -11217983.23 0.2662 0.0321

Mercury -35424-05-03 05:16 J -11217070.38 -11217070.28 -11217070.17 0.2668 0.1609

Mercury -35417-04-25 17:02 J -11214520.90 -11214520.79 -11214520.67 0.2673 0.1237

Mercury -35414-11-05 01:40 J -11213232.54 -11213232.43 -11213232.32 0.2664 0.1331

Mercury -35411-05-06 03:50 J -11212319.34 -11212319.34 -11212319.34 0.2666 0.2666

Mercury -35407-10-28 11:31 J -11210683.13 -11210683.02 -11210682.92 0.2659 0.1606

Mercury -35404-04-28 14:38 J -11209770.01 -11209769.89 -11209769.76 0.2671 0.0269

Mercury -35401-11-06 23:31 J -11208481.58 -11208481.52 -11208481.46 0.2665 0.2310

Mercury -35394-10-31 10:19 J -11205932.20 -11205932.07 -11205931.94 0.2660 0.0536

Mercury -35391-05-01 12:43 J -11205019.10 -11205018.97 -11205018.85 0.2670 0.0761

Mercury -35384-04-24 01:11 J -11202469.53 -11202469.45 -11202469.37 0.2675 0.2015

Mercury -35381-11-02 08:52 J -11201181.26 -11201181.13 -11201181.01 0.2662 0.0509

Mercury -35378-05-04 10:47 J -11200268.15 -11200268.05 -11200267.96 0.2668 0.1791

Mercury -35374-10-26 17:45 J -11198631.80 -11198631.76 -11198631.72 0.2657 0.2511

Mercury -35371-04-26 22:33 J -11197718.68 -11197718.56 -11197718.45 0.2673 0.1060

Mercury -35368-11-05 06:57 J -11196430.31 -11196430.21 -11196430.10 0.2664 0.1514

Mercury -35361-10-28 17:02 J -11193880.90 -11193880.79 -11193880.68 0.2659 0.1415

Mercury -35358-04-29 20:09 J -11192967.79 -11192967.66 -11192967.53 0.2671 0.0082

Mercury -35355-11-08 05:02 J -11191679.34 -11191679.29 -11191679.25 0.2666 0.2488

Mercury -35348-10-31 15:50 J -11189129.97 -11189129.84 -11189129.71 0.2661 0.0350

Mercury -35345-05-01 17:59 J -11188216.87 -11188216.75 -11188216.63 0.2669 0.0944

Mercury -35338-04-25 06:28 J -11185667.32 -11185667.23 -11185667.15 0.2674 0.1846

Venus -35338-10-22 01:26 J -11185487.56 -11185487.44 -11185487.32 0.2654 0.1830

Mercury -35335-11-03 14:09 J -11184379.03 -11184378.91 -11184378.78 0.2662 0.0692

Mercury -35332-05-04 16:19 J -11183465.91 -11183465.82 -11183465.74 0.2668 0.1987

Venus -35330-10-19 12:57 J -11182568.05 -11182567.96 -11182567.87 0.2653 0.2221

Mercury -35328-10-26 23:31 J -11181829.59 -11181829.52 -11181829.46 0.2658 0.2314

Mercury -35325-04-27 03:50 J -11180916.46 -11180916.34 -11180916.22 0.2673 0.0880

Mercury -35322-11-06 12:28 J -11179628.08 -11179627.98 -11179627.89 0.2664 0.1692

Mercury -35315-10-29 22:33 J -11177078.68 -11177078.56 -11177078.45 0.2659 0.1219

Mercury -35312-04-30 01:26 J -11176165.56 -11176165.44 -11176165.31 0.2671 0.0137

Mercury -35309-11-08 10:19 J -11174877.07 -11174877.07 -11174877.07 0.2666 0.2664

Mercury -35305-04-22 14:23 J -11173615.92 -11173615.90 -11173615.87 0.2676 0.2608

Mercury -35302-11-01 21:07 J -11172327.75 -11172327.62 -11172327.49 0.2661 0.0181

Mercury -35299-05-02 23:31 J -11171414.64 -11171414.52 -11171414.41 0.2669 0.1130

Mercury -35292-04-25 11:45 J -11168865.11 -11168865.01 -11168864.92 0.2674 0.1671

Mercury -35289-11-03 19:40 J -11167576.80 -11167576.68 -11167576.56 0.2663 0.0872

Mercury -35286-05-05 21:50 J -11166663.67 -11166663.59 -11166663.52 0.2668 0.2182

Mercury -35282-10-28 05:02 J -11165027.37 -11165027.29 -11165027.21 0.2658 0.2115

Mercury -35279-04-28 09:07 J -11164114.24 -11164114.12 -11164114.00 0.2672 0.0703

Mercury -35276-11-06 17:45 J -11162825.85 -11162825.76 -11162825.67 0.2664 0.1874

Mercury -35269-10-30 04:04 J -11160276.45 -11160276.33 -11160276.21 0.2660 0.1028

Mercury -35266-05-01 06:57 J -11159363.34 -11159363.21 -11159363.09 0.2670 0.0301

Mercury -35259-04-23 19:40 J -11156813.72 -11156813.68 -11156813.63 0.2675 0.2443

Mercury -35256-11-02 02:38 J -11155525.52 -11155525.39 -11155525.26 0.2661 0.0067

Mercury -35253-05-03 05:02 J -11154612.41 -11154612.29 -11154612.18 0.2669 0.1325

Mercury -35246-04-26 17:02 J -11152062.89 -11152062.79 -11152062.69 0.2674 0.1496

Mercury -35243-11-05 01:11 J -11150774.57 -11150774.45 -11150774.34 0.2663 0.1059

Mercury -35240-05-06 03:07 J -11149861.42 -11149861.37 -11149861.31 0.2667 0.2377

Mercury -35236-10-28 10:33 J -11148225.15 -11148225.06 -11148224.97 0.2658 0.1919

Mercury -35233-04-28 14:38 J -11147312.02 -11147311.89 -11147311.77 0.2672 0.0533

Mercury -35230-11-07 23:16 J -11146023.61 -11146023.53 -11146023.45 0.2665 0.2051

Mercury -35223-10-31 09:35 J -11143474.23 -11143474.10 -11143473.98 0.2660 0.0835

Mercury -35220-05-01 12:14 J -11142561.11 -11142560.99 -11142560.86 0.2670 0.0479

Mercury -35213-04-24 00:57 J -11140011.52 -11140011.46 -11140011.39 0.2675 0.2271

Mercury -35210-11-03 08:09 J -11138723.29 -11138723.16 -11138723.03 0.2662 0.0217

Venus -35208-04-19 02:09 J -11138190.51 -11138190.41 -11138190.30 0.2678 0.1897

Mercury -35207-05-04 10:19 J -11137810.18 -11137810.07 -11137809.96 0.2668 0.1507

Venus -35200-04-16 20:38 J -11135270.77 -11135270.64 -11135270.50 0.2680 0.1281

Mercury -35200-04-26 22:19 J -11135260.68 -11135260.57 -11135260.46 0.2673 0.1324

Mercury -35197-11-05 06:28 J -11133972.34 -11133972.23 -11133972.11 0.2663 0.1241

Mercury -35194-05-07 08:38 J -11133059.17 -11133059.14 -11133059.11 0.2667 0.2570

Mercury -35190-10-29 16:04 J -11131422.93 -11131422.83 -11131422.73 0.2658 0.1722

Mercury -35187-04-29 19:55 J -11130509.80 -11130509.67 -11130509.55 0.2672 0.0353

Mercury -35184-11-08 04:33 J -11129221.38 -11129221.31 -11129221.24 0.2665 0.2229

Mercury -35177-10-31 15:07 J -11126672.00 -11126671.87 -11126671.75 0.2660 0.0646

Mercury -35174-05-02 17:45 J -11125758.89 -11125758.76 -11125758.64 0.2670 0.0665

Mercury -35167-04-25 06:14 J -11123209.31 -11123209.24 -11123209.16 0.2675 0.2103

Mercury -35164-11-03 13:40 J -11121921.06 -11121920.93 -11121920.80 0.2662 0.0409

Mercury -35161-05-04 15:50 J -11121007.94 -11121007.84 -11121007.74 0.2668 0.1701

Mercury -35157-10-26 22:33 J -11119371.58 -11119371.56 -11119371.55 0.2657 0.2635

Mercury -35154-04-28 03:35 J -11118458.46 -11118458.35 -11118458.24 0.2673 0.1148

Mercury -35151-11-06 11:59 J -11117170.11 -11117170.00 -11117169.89 0.2664 0.1423

Mercury -35144-10-29 21:35 J -11114620.70 -11114620.60 -11114620.49 0.2659 0.1527

Mercury -35141-04-30 01:11 J -11113707.58 -11113707.45 -11113707.32 0.2671 0.0166

Mercury -35138-11-09 09:50 J -11112419.14 -11112419.09 -11112419.03 0.2665 0.2408

Mercury -35131-11-01 20:38 J -11109869.77 -11109869.64 -11109869.51 0.2660 0.0457

Mercury -35128-05-02 23:02 J -11108956.66 -11108956.54 -11108956.42 0.2670 0.0848

Mercury -35121-04-25 11:45 J -11106407.10 -11106407.01 -11106406.93 0.2675 0.1929

Mercury -35118-11-04 19:11 J -11105118.83 -11105118.70 -11105118.58 0.2662 0.0597

Mercury -35115-05-05 21:07 J -11104205.71 -11104205.62 -11104205.53 0.2668 0.1890

Mercury -35111-10-28 04:04 J -11102569.38 -11102569.33 -11102569.28 0.2657 0.2436

Mercury -35108-04-28 08:52 J -11101656.24 -11101656.13 -11101656.01 0.2673 0.0974

Mercury -35105-11-06 17:16 J -11100367.88 -11100367.78 -11100367.67 0.2664 0.1609

Mercury -35098-10-31 03:07 J -11097818.48 -11097818.37 -11097818.25 0.2659 0.1333

Mercury -35095-05-01 06:28 J -11096905.35 -11096905.23 -11096905.10 0.2671 0.0066

Venus -35095-10-21 23:16 J -11096731.66 -11096731.53 -11096731.41 0.2653 0.1758

Mercury -35092-11-09 15:21 J -11095616.89 -11095616.86 -11095616.83 0.2666 0.2586

Venus -35087-10-19 10:33 J -11093812.14 -11093812.06 -11093811.98 0.2652 0.2313

Mercury -35085-11-02 02:09 J -11093067.54 -11093067.41 -11093067.28 0.2661 0.0275

Mercury -35082-05-04 04:33 J -11092154.43 -11092154.31 -11092154.20 0.2669 0.1037

Mercury -35075-04-26 17:02 J -11089604.89 -11089604.79 -11089604.70 0.2674 0.1756

Mercury -35072-11-05 00:28 J -11088316.60 -11088316.48 -11088316.35 0.2662 0.0787

Mercury -35069-05-06 02:38 J -11087403.47 -11087403.39 -11087403.31 0.2668 0.2085

Mercury -35065-10-28 09:35 J -11085767.17 -11085767.10 -11085767.03 0.2658 0.2239

Mercury -35062-04-29 14:23 J -11084854.02 -11084853.90 -11084853.78 0.2673 0.0791

Mercury -35059-11-07 22:47 J -11083565.64 -11083565.55 -11083565.46 0.2664 0.1786

Mercury -35052-10-31 08:38 J -11081016.26 -11081016.14 -11081016.02 0.2659 0.1140

Mercury -35049-05-01 11:59 J -11080103.13 -11080103.00 -11080102.87 0.2671 0.0202

Mercury -35042-04-25 01:11 J -11077553.49 -11077553.45 -11077553.42 0.2676 0.2521

Mercury -35039-11-03 07:26 J -11076265.32 -11076265.19 -11076265.06 0.2661 0.0098

Mercury -35036-05-04 09:50 J -11075352.20 -11075352.09 -11075351.98 0.2669 0.1223

Mercury -35029-04-26 22:19 J -11072802.67 -11072802.57 -11072802.47 0.2674 0.1583

Mercury -35026-11-06 05:59 J -11071514.37 -11071514.25 -11071514.13 0.2663 0.0966

Mercury -35023-05-07 08:09 J -11070601.23 -11070601.16 -11070601.10 0.2667 0.2274

Mercury -35019-10-29 15:07 J -11068964.95 -11068964.87 -11068964.78 0.2658 0.2041

Mercury -35016-04-29 19:40 J -11068051.80 -11068051.68 -11068051.56 0.2672 0.0613

Mercury -35013-11-08 04:04 J -11066763.41 -11066763.33 -11066763.24 0.2664 0.1973

Mercury -35006-11-01 14:09 J -11064214.03 -11064213.91 -11064213.78 0.2660 0.0948

Mercury -35003-05-02 17:16 J -11063300.90 -11063300.78 -11063300.65 0.2671 0.0398

35TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 35th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-34996-04-25 06:14 J	-11060751.29	-11060751.24	-11060751.18	0.2675	0.2357		
Mercury	-34993-11-03 12:57 J	-11059463.09	-11059462.96	-11059462.83	0.2661	0.0128		
Mercury	-34990-05-05 15:21 J	-11058549.97	-11058549.86	-11058549.75	0.2669	0.1415		
Mercury	-34983-04-28 03:35 J	-11056000.46	-11056000.35	-11056000.25	0.2674	0.1410		
Mercury	-34980-11-06 11:31 J	-11054712.14	-11054712.02	-11054711.91	0.2663	0.1154		
Mercury	-34977-05-07 13:40 J	-11053798.98	-11053798.93	-11053798.89	0.2667	0.2473		
Mercury	-34973-10-29 20:38 J	-11052162.73	-11052162.64	-11052162.54	0.2658	0.1844		
Mercury	-34970-05-01 00:57 J	-11051249.58	-11051249.46	-11051249.33	0.2672	0.0437		
Mercury	-34967-11-09 09:35 J	-11049961.18	-11049961.10	-11049961.03	0.2665	0.2148		
Venus	-34965-04-19 06:43 J	-11049434.31	-11049434.22	-11049434.13	0.2679	0.2201		
Mercury	-34960-11-01 19:40 J	-11047411.80	-11047411.68	-11047411.55	0.2660	0.0754		
Venus	-34957-04-17 01:11 J	-11046514.59	-11046514.45	-11046514.30	0.2681	0.0956		

Mercury -34957-05-02 22:47 J -11046498.68 -11046498.55 -11046498.43 0.2670 0.0573

Mercury -34950-04-26 11:45 J -11043949.08 -11043949.01 -11043948.95 0.2675 0.2185

Mercury -34947-11-04 18:28 J -11042660.86 -11042660.73 -11042660.60 0.2662 0.0307

Mercury -34944-05-05 20:38 J -11041747.74 -11041747.64 -11041747.53 0.2669 0.1608

Mercury -34937-04-28 08:52 J -11039198.24 -11039198.13 -11039198.02 0.2673 0.1234

Mercury -34934-11-07 16:47 J -11037909.91 -11037909.80 -11037909.69 0.2663 0.1333

Mercury -34927-10-31 02:23 J -11035360.51 -11035360.40 -11035360.30 0.2659 0.1645

Mercury -34924-05-01 06:14 J -11034447.36 -11034447.24 -11034447.11 0.2672 0.0271

Mercury -34921-11-09 14:52 J -11033158.94 -11033158.88 -11033158.82 0.2665 0.2331

Mercury -34914-11-03 01:11 J -11030609.57 -11030609.45 -11030609.32 0.2660 0.0563

Mercury -34911-05-04 04:04 J -11029696.45 -11029696.33 -11029696.21 0.2670 0.0758

Mercury -34904-04-26 16:47 J -11027146.88 -11027146.80 -11027146.72 0.2675 0.2018

Mercury -34901-11-04 23:59 J -11025858.63 -11025858.50 -11025858.37 0.2662 0.0499

Mercury -34898-05-07 02:09 J -11024945.50 -11024945.41 -11024945.31 0.2668 0.1800

Mercury -34894-10-29 08:38 J -11023309.17 -11023309.14 -11023309.11 0.2657 0.2561

Mercury -34891-04-29 14:09 J -11022396.02 -11022395.91 -11022395.79 0.2673 0.1056

Mercury -34888-11-07 22:19 J -11021107.68 -11021107.57 -11021107.47 0.2664 0.1518

Mercury -34881-10-31 07:55 J -11018558.28 -11018558.17 -11018558.06 0.2659 0.1448

Mercury -34878-05-02 11:45 J -11017645.14 -11017645.01 -11017644.88 0.2671 0.0072

Mercury -34875-11-10 20:23 J -11016356.69 -11016356.65 -11016356.61 0.2665 0.2507

Mercury -34868-11-03 06:43 J -11013807.35 -11013807.22 -11013807.09 0.2660 0.0371

Mercury -34865-05-04 09:35 J -11012894.22 -11012894.10 -11012893.98 0.2670 0.0947

Mercury -34858-04-27 22:04 J -11010344.66 -11010344.58 -11010344.49 0.2675 0.1844

Mercury -34855-11-06 05:31 J -11009056.40 -11009056.27 -11009056.15 0.2662 0.0690

Mercury -34852-05-07 07:40 J -11008143.27 -11008143.18 -11008143.10 0.2668 0.1988

Venus -34852-10-21 20:52 J -11007975.76 -11007975.63 -11007975.51 0.2653 0.1672

Mercury -34848-10-29 14:09 J -11006506.97 -11006506.91 -11006506.85 0.2657 0.2362

Mercury -34845-04-29 19:26 J -11005593.81 -11005593.69 -11005593.57 0.2673 0.0884

Venus -34844-10-19 08:23 J -11005056.23 -11005056.15 -11005056.08 0.2651 0.2367

Mercury -34842-11-09 03:35 J -11004305.44 -11004305.35 -11004305.25 0.2664 0.1706

Mercury -34835-11-01 13:26 J -11001756.06 -11001755.94 -11001755.82 0.2659 0.1250

Mercury -34832-05-02 17:02 J -11000842.91 -11000842.79 -11000842.66 0.2671 0.0119

Mercury -34825-04-25 06:28 J -10998293.26 -10998293.23 -10998293.21 0.2676 0.2606

Mercury -34822-11-04 12:14 J -10997005.12 -10997004.99 -10997004.86 0.2661 0.0189

Mercury -34819-05-05 14:52 J -10996091.99 -10996091.88 -10996091.76 0.2669 0.1136

Mercury -34812-04-28 03:35 J -10993542.45 -10993542.35 -10993542.26 0.2674 0.1671

Mercury -34809-11-06 10:47 J -10992254.17 -10992254.05 -10992253.92 0.2662 0.0876

Mercury -34806-05-08 13:11 J -10991341.03 -10991340.95 -10991340.88 0.2668 0.2185

Mercury -34802-10-30 19:40 J -10989704.75 -10989704.68 -10989704.60 0.2658 0.2161

Mercury -34799-05-01 00:57 J -10988791.59 -10988791.46 -10988791.34 0.2673 0.0705

Mercury -34796-11-09 09:07 J -10987503.21 -10987503.12 -10987503.03 0.2664 0.1885

Mercury -34789-11-01 18:57 J -10984953.83 -10984953.71 -10984953.59 0.2659 0.1054

Mercury -34786-05-03 22:33 J -10984040.69 -10984040.56 -10984040.44 0.2671 0.0307

Mercury -34779-04-26 11:45 J -10981491.06 -10981491.01 -10981490.96 0.2676 0.2434

Mercury -34776-11-04 17:45 J -10980202.89 -10980202.76 -10980202.63 0.2661 0.0027

Mercury -34773-05-05 20:23 J -10979289.76 -10979289.65 -10979289.54 0.2669 0.1321

Mercury -34766-04-29 08:52 J -10976740.23 -10976740.13 -10976740.03 0.2674 0.1492

Mercury -34763-11-07 16:19 J -10975451.94 -10975451.82 -10975451.70 0.2663 0.1059

Mercury -34760-05-08 18:28 J -10974538.78 -10974538.73 -10974538.67 0.2667 0.2377

Mercury -34756-10-31 01:26 J -10972902.53 -10972902.44 -10972902.36 0.2658 0.1964

Mercury -34753-05-01 06:14 J -10971989.37 -10971989.24 -10971989.12 0.2672 0.0524

Mercury -34750-11-10 14:38 J -10970700.97 -10970700.89 -10970700.81 0.2664 0.2071

Mercury -34743-11-03 00:28 J -10968151.60 -10968151.48 -10968151.35 0.2660 0.0859

Mercury -34740-05-04 03:50 J -10967238.47 -10967238.34 -10967238.22 0.2671 0.0481

Mercury -34733-04-26 17:02 J -10964688.86 -10964688.79 -10964688.73 0.2675 0.2270

Mercury -34730-11-05 23:16 J -10963400.66 -10963400.53 -10963400.40 0.2661 0.0210

Mercury -34727-05-07 01:40 J -10962487.53 -10962487.43 -10962487.32 0.2669 0.1513

Venus -34722-04-20 11:16 J -10960678.08 -10960678.03 -10960677.98 0.2680 0.2522

Mercury -34720-04-29 14:09 J -10959938.02 -10959937.91 -10959937.80 0.2674 0.1315

Mercury -34717-11-07 21:50 J -10958649.71 -10958649.59 -10958649.48 0.2663 0.1249

Venus -34714-04-18 05:45 J -10957758.41 -10957758.26 -10957758.11 0.2681 0.0647

Mercury -34714-05-09 23:59 J -10957736.53 -10957736.50 -10957736.47 0.2667 0.2570

Mercury -34710-11-01 06:57 J -10956100.31 -10956100.21 -10956100.11 0.2658 0.1764

Mercury -34707-05-02 11:31 J -10955187.14 -10955187.02 -10955186.89 0.2672 0.0340

Mercury -34704-11-10 19:55 J -10953898.74 -10953898.67 -10953898.60 0.2665 0.2250

Mercury -34697-11-03 05:59 J -10951349.38 -10951349.25 -10951349.12 0.2660 0.0667

Mercury -34694-05-05 09:07 J -10950436.24 -10950436.12 -10950435.99 0.2670 0.0675

Mercury -34687-04-27 22:19 J -10947886.65 -10947886.57 -10947886.50 0.2675 0.2094

Mercury -34684-11-06 04:47 J -10946598.43 -10946598.30 -10946598.17 0.2661 0.0401

Mercury -34681-05-07 07:11 J -10945685.30 -10945685.20 -10945685.10 0.2669 0.1702

Mercury -34674-04-30 19:26 J -10943135.80 -10943135.69 -10943135.58 0.2673 0.1142

Mercury -34671-11-09 03:07 J -10941847.47 -10941847.37 -10941847.26 0.2663 0.1435

Mercury -34664-11-01 12:28 J -10939298.09 -10939297.98 -10939297.87 0.2658 0.1566

Mercury -34661-05-02 16:47 J -10938384.92 -10938384.80 -10938384.67 0.2672 0.0173

Mercury -34658-11-12 01:26 J -10937096.49 -10937096.44 -10937096.39 0.2665 0.2435

Mercury -34651-11-04 11:31 J -10934547.15 -10934547.02 -10934546.89 0.2660 0.0473

Mercury -34648-05-05 14:38 J -10933634.01 -10933633.89 -10933633.77 0.2670 0.0858

Mercury -34641-04-28 03:35 J -10931084.44 -10931084.35 -10931084.27 0.2675 0.1928

Mercury -34638-11-07 10:19 J -10929796.20 -10929796.07 -10929795.95 0.2662 0.0594

Mercury -34635-05-08 12:43 J -10928883.06 -10928882.97 -10928882.88 0.2668 0.1897

Mercury -34631-10-30 18:43 J -10927246.76 -10927246.72 -10927246.67 0.2657 0.2485

Mercury -34628-05-01 00:43 J -10926333.59 -10926333.47 -10926333.35 0.2673 0.0963

Mercury -34625-11-09 08:38 J -10925045.24 -10925045.14 -10925045.04 0.2663 0.1618

Mercury -34618-11-02 17:59 J -10922495.86 -10922495.75 -10922495.63 0.2659 0.1367

Mercury -34615-05-03 22:19 J -10921582.70 -10921582.57 -10921582.45 0.2671 0.0053

Mercury -34612-11-12 06:43 J -10920294.24 -10920294.22 -10920294.20 0.2665 0.2613

Venus -34609-10-21 18:43 J -10919219.85 -10919219.72 -10919219.59 0.2651 0.1608

Mercury -34605-11-04 17:02 J -10917744.92 -10917744.79 -10917744.66 0.2660 0.0279

Mercury -34602-05-06 19:55 J -10916831.78 -10916831.67 -10916831.55 0.2670 0.1045

Venus -34601-10-19 05:59 J -10916300.31 -10916300.25 -10916300.19 0.2650 0.2444

Mercury -34595-04-29 08:52 J -10914282.23 -10914282.13 -10914282.04 0.2675 0.1751

Mercury -34592-11-07 15:35 J -10912993.97 -10912993.85 -10912993.72 0.2662 0.0781

Mercury -34589-05-08 17:59 J -10912080.83 -10912080.75 -10912080.67 0.2668 0.2091

Mercury -34585-10-31 00:14 J -10910444.55 -10910444.49 -10910444.42 0.2657 0.2287

Mercury -34582-05-02 05:59 J -10909531.37 -10909531.25 -10909531.13 0.2673 0.0789

Mercury -34579-11-10 14:09 J -10908243.01 -10908242.91 -10908242.82 0.2664 0.1802

Mercury -34572-11-02 23:31 J -10905693.63 -10905693.52 -10905693.40 0.2659 0.1171

Mercury -34569-05-04 03:35 J -10904780.48 -10904780.35 -10904780.22 0.2671 0.0208

Mercury -34562-04-27 17:02 J -10902230.83 -10902230.79 -10902230.75 0.2676 0.2519

Mercury -34559-11-05 22:33 J -10900942.69 -10900942.56 -10900942.43 0.2661 0.0082

Mercury -34556-05-07 01:26 J -10900029.55 -10900029.44 -10900029.33 0.2669 0.1233

Mercury -34549-04-29 14:09 J -10897480.01 -10897479.91 -10897479.81 0.2674 0.1580

Mercury -34546-11-08 21:07 J -10896191.74 -10896191.62 -10896191.50 0.2662 0.0969

Mercury -34543-05-09 23:31 J -10895278.59 -10895278.52 -10895278.46 0.2668 0.2283

Mercury -34539-11-01 05:59 J -10893642.33 -10893642.25 -10893642.17 0.2658 0.2082

Mercury -34536-05-02 11:31 J -10892729.15 -10892729.02 -10892728.90 0.2673 0.0612

Mercury -34533-11-10 19:26 J -10891440.77 -10891440.69 -10891440.60 0.2664 0.1986

Mercury -34526-11-04 05:02 J -10888891.41 -10888891.29 -10888891.16 0.2659 0.0976

Mercury -34523-05-05 08:52 J -10887978.25 -10887978.13 -10887978.00 0.2671 0.0401

Mercury -34516-04-27 22:19 J -10885428.63 -10885428.57 -10885428.51 0.2676 0.2346

Mercury -34513-11-06 04:04 J -10884140.46 -10884140.33 -10884140.20 0.2661 0.0111

Mercury -34510-05-08 06:43 J -10883227.33 -10883227.22 -10883227.11 0.2669 0.1420

Mercury -34503-04-30 19:26 J -10880677.80 -10880677.69 -10880677.59 0.2674 0.1402

Mercury -34500-11-09 02:38 J -10879389.51 -10879389.39 -10879389.27 0.2663 0.1158

Mercury -34497-05-10 04:47 J -10878476.34 -10878476.30 -10878476.25 0.2668 0.2478

Mercury -34493-11-01 11:31 J -10876840.11 -10876840.02 -10876839.93 0.2658 0.1884

Mercury -34490-05-03 16:47 J -10875926.93 -10875926.80 -10875926.68 0.2672 0.0439

Mercury -34487-11-12 00:57 J -10874638.53 -10874638.46 -10874638.39 0.2664 0.2172

Mercury -34480-11-04 10:47 J -10872089.18 -10872089.05 -10872088.93 0.2659 0.0779

Mercury -34477-05-05 14:23 J -10871176.03 -10871175.90 -10871175.78 0.2671 0.0582

Venus -34471-04-18 10:19 J -10869002.22 -10869002.07 -10869001.92 0.2682 0.0342

Mercury -34470-04-29 03:35 J -10868626.42 -10868626.35 -10868626.28 0.2676 0.2178

Mercury -34467-11-07 09:35 J -10867338.23 -10867338.10 -10867337.97 0.2661 0.0304

Mercury -34464-05-08 12:14 J -10866425.09 -10866424.99 -10866424.89 0.2669 0.1610

Mercury -34457-05-01 00:43 J -10863875.58 -10863875.47 -10863875.36 0.2674 0.1226

Mercury -34454-11-10 08:09 J -10862587.27 -10862587.16 -10862587.05 0.2663 0.1347

Mercury -34447-11-02 17:02 J -10860037.89 -10860037.79 -10860037.68 0.2658 0.1682

Mercury -34444-05-03 22:04 J -10859124.71 -10859124.58 -10859124.45 0.2672 0.0242

Mercury -34441-11-12 06:14 J -10857836.29 -10857836.24 -10857836.18 0.2665 0.2354

Mercury -34434-11-05 16:19 J -10855286.95 -10855286.82 -10855286.70 0.2660 0.0584

Mercury -34431-05-06 19:40 J -10854373.80 -10854373.68 -10854373.56 0.2670 0.0761

Mercury -34424-04-29 08:52 J -10851824.21 -10851824.13 -10851824.05 0.2675 0.2004

Mercury -34421-11-07 15:07 J -10850536.00 -10850535.87 -10850535.75 0.2661 0.0502

Mercury -34418-05-09 17:31 J -10849622.86 -10849622.77 -10849622.67 0.2669 0.1802

Mercury -34414-10-31 23:16 J -10847986.55 -10847986.53 -10847986.51 0.2657 0.2616

Mercury -34411-05-02 05:59 J -10847073.36 -10847073.25 -10847073.14 0.2674 0.1047

Mercury -34408-11-10 13:26 J -10845785.04 -10845784.94 -10845784.83 0.2663 0.1533

Mercury -34401-11-02 22:33 J -10843235.67 -10843235.56 -10843235.45 0.2658 0.1486

Mercury -34398-05-05 03:21 J -10842322.48 -10842322.36 -10842322.23 0.2672 0.0075

Mercury -34395-11-13 11:45 J -10841034.05 -10841034.01 -10841033.98 0.2665 0.2538

Mercury -34388-11-05 21:50 J -10838484.72 -10838484.59 -10838484.46 0.2660 0.0384

Mercury -34385-05-07 01:11 J -10837571.57 -10837571.45 -10837571.34 0.2670 0.0959

Mercury -34378-04-30 14:09 J -10835022.00 -10835021.91 -10835021.82 0.2675 0.1834

Mercury -34375-11-08 20:38 J -10833733.77 -10833733.64 -10833733.52 0.2662 0.0691

Mercury -34372-05-09 23:02 J -10832820.62 -10832820.54 -10832820.46 0.2668 0.1995

Mercury -34368-11-01 04:47 J -10831184.35 -10831184.30 -10831184.24 0.2657 0.2411

Venus -34366-10-22 16:04 J -10830463.97 -10830463.83 -10830463.70 0.2651 0.1507

Mercury -34365-05-02 11:16 J -10830271.15 -10830271.03 -10830270.91 0.2673 0.0869

Mercury -34362-11-11 18:57 J -10828982.81 -10828982.71 -10828982.61 0.2663 0.1719

Venus -34358-10-20 03:35 J -10827544.40 -10827544.35 -10827544.30 0.2649 0.2514

Mercury -34355-11-04 04:19 J -10826433.44 -10826433.32 -10826433.21 0.2659 0.1285

Mercury -34352-05-05 08:52 J -10825520.26 -10825520.13 -10825520.01 0.2671 0.0148

Mercury -34345-04-27 22:19 J -10822970.59 -10822970.57 -10822970.54 0.2676 0.2599

Mercury -34342-11-07 03:21 J -10821682.50 -10821682.36 -10821682.23 0.2660 0.0203

Mercury -34339-05-08 06:28 J -10820769.35 -10820769.23 -10820769.12 0.2670 0.1141

Mercury -34332-04-30 19:26 J -10818219.79 -10818219.69 -10818219.60 0.2675 0.1657

Mercury -34329-11-09 01:55 J -10816931.54 -10816931.42 -10816931.29 0.2662 0.0879

Mercury -34326-05-11 04:33 J -10816018.39 -10816018.31 -10816018.24 0.2668 0.2192

Mercury -34322-11-02 10:33 J -10814382.14 -10814382.06 -10814381.99 0.2657 0.2209

Mercury -34319-05-03 16:33 J -10813468.93 -10813468.81 -10813468.69 0.2673 0.0694

Mercury -34316-11-12 00:28 J -10812180.57 -10812180.48 -10812180.39 0.2664 0.1906

Mercury -34309-11-04 09:50 J -10809631.21 -10809631.09 -10809630.97 0.2659 0.1085

Mercury -34306-05-06 14:09 J -10808718.04 -10808717.91 -10808717.79 0.2671 0.0309

Mercury -34299-04-29 03:35 J -10806168.40 -10806168.35 -10806168.30 0.2676 0.2429

Mercury -34296-11-07 08:52 J -10804880.27 -10804880.13 -10804880.00 0.2661 0.0075

Mercury -34293-05-08 11:59 J -10803967.11 -10803967.00 -10803966.89 0.2670 0.1337

Mercury -34286-05-02 00:43 J -10801417.58 -10801417.47 -10801417.37 0.2674 0.1488

Mercury -34283-11-10 07:26 J -10800129.31 -10800129.19 -10800129.07 0.2662 0.1064

Mercury -34280-05-11 09:50 J -10799216.14 -10799216.09 -10799216.03 0.2668 0.2387

Mercury -34276-11-02 16:04 J -10797579.92 -10797579.83 -10797579.74 0.2657 0.2001

Mercury -34273-05-03 21:50 J -10796666.71 -10796666.59 -10796666.46 0.2673 0.0518

Mercury -34270-11-13 05:45 J -10795378.34 -10795378.26 -10795378.18 0.2664 0.2089

Mercury -34263-11-05 15:21 J -10792828.98 -10792828.86 -10792828.73 0.2659 0.0884

Mercury -34260-05-06 19:26 J -10791915.81 -10791915.69 -10791915.56 0.2671 0.0490

Mercury -34253-04-29 08:52 J -10789366.19 -10789366.13 -10789366.07 0.2676 0.2259

Mercury -34250-11-08 14:09 J -10788078.04 -10788077.91 -10788077.77 0.2661 0.0222

Mercury -34247-05-09 17:16 J -10787164.89 -10787164.78 -10787164.68 0.2669 0.1520

Mercury -34240-05-02 05:59 J -10784615.36 -10784615.25 -10784615.14 0.2674 0.1310

Mercury -34237-11-10 12:57 J -10783327.08 -10783326.96 -10783326.85 0.2663 0.1255

Mercury -34234-05-12 15:21 J -10782413.89 -10782413.86 -10782413.83 0.2668 0.2584

Mercury -34230-11-03 21:35 J -10780777.69 -10780777.60 -10780777.50 0.2658 0.1803

Venus -34228-04-18 14:38 J -10780246.04 -10780245.89 -10780245.73 0.2683 0.0048

Mercury -34227-05-05 03:07 J -10779864.49 -10779864.37 -10779864.24 0.2672 0.0347

Mercury -34224-11-13 11:16 J -10778576.10 -10778576.03 -10778575.97 0.2664 0.2273

Mercury -34217-11-05 20:52 J -10776026.76 -10776026.63 -10776026.50 0.2659 0.0685

Mercury -34214-05-08 00:43 J -10775113.59 -10775113.47 -10775113.34 0.2671 0.0679

Mercury -34207-04-30 14:09 J -10772563.99 -10772563.91 -10772563.83 0.2676 0.2088

Mercury -34204-11-08 19:55 J -10771275.80 -10771275.67 -10771275.54 0.2661 0.0406

Mercury -34201-05-09 22:33 J -10770362.65 -10770362.56 -10770362.46 0.2669 0.1717

Mercury -34194-05-03 11:16 J -10767813.14 -10767813.03 -10767812.92 0.2674 0.1133

Mercury -34191-11-11 18:14 J -10766524.84 -10766524.74 -10766524.63 0.2663 0.1446

Mercury -34184-11-04 03:21 J -10763975.47 -10763975.36 -10763975.26 0.2658 0.1599

Mercury -34181-05-05 08:38 J -10763062.27 -10763062.14 -10763062.02 0.2672 0.0158

Mercury -34178-11-14 16:33 J -10761773.85 -10761773.81 -10761773.76 0.2665 0.2459

Mercury -34171-11-07 02:23 J -10759224.53 -10759224.40 -10759224.27 0.2660 0.0489

Mercury -34168-05-08 06:14 J -10758311.36 -10758311.24 -10758311.12 0.2670 0.0864

Mercury -34161-04-30 19:26 J -10755761.77 -10755761.69 -10755761.60 0.2675 0.1912

Mercury -34158-11-10 01:11 J -10754473.57 -10754473.45 -10754473.32 0.2661 0.0595

Mercury -34155-05-11 04:04 J -10753560.42 -10753560.33 -10753560.24 0.2669 0.1904

Mercury -34151-11-02 09:21 J -10751924.15 -10751924.11 -10751924.07 0.2656 0.2537

Mercury -34148-05-03 16:33 J -10751010.93 -10751010.81 -10751010.69 0.2674 0.0954

Mercury -34145-11-11 23:45 J -10749722.61 -10749722.51 -10749722.41 0.2663 0.1636

Mercury -34138-11-05 08:52 J -10747173.24 -10747173.13 -10747173.02 0.2658 0.1399

Mercury -34135-05-06 13:55 J -10746260.05 -10746259.92 -10746259.80 0.2672 0.0038

Mercury -34132-11-14 22:04 J -10744971.59 -10744971.58 -10744971.57 0.2665 0.2644

Mercury -34125-11-07 07:55 J -10742422.30 -10742422.17 -10742422.04 0.2660 0.0293

Venus -34123-10-22 13:55 J -10741708.06 -10741707.92 -10741707.78 0.2650 0.1456

Mercury -34122-05-09 11:31 J -10741509.13 -10741509.02 -10741508.90 0.2670 0.1054

Mercury -34115-05-02 00:43 J -10738959.56 -10738959.47 -10738959.38 0.2675 0.1741

Venus -34115-10-20 01:11 J -10738788.48 -10738788.45 -10738788.41 0.2648 0.2575

Mercury -34112-11-10 06:43 J -10737671.34 -10737671.22 -10737671.09 0.2662 0.0782

Mercury -34109-05-11 09:35 J -10736758.18 -10736758.10 -10736758.03 0.2668 0.2101

Mercury -34105-11-02 14:52 J -10735121.94 -10735121.88 -10735121.81 0.2657 0.2334

Mercury -34102-05-04 21:50 J -10734208.71 -10734208.59 -10734208.47 0.2673 0.0774

Mercury -34099-11-13 05:16 J -10732920.37 -10732920.28 -10732920.19 0.2663 0.1822

Mercury -34092-11-05 14:23 J -10730371.02 -10730370.90 -10730370.78 0.2658 0.1195

Mercury -34089-05-06 19:11 J -10729457.82 -10729457.70 -10729457.57 0.2672 0.0233

Mercury -34082-04-30 09:07 J -10726908.16 -10726908.12 -10726908.08 0.2676 0.2508

Mercury -34079-11-08 13:26 J -10725620.07 -10725619.94 -10725619.81 0.2660 0.0100

Mercury -34076-05-09 17:02 J -10724706.91 -10724706.79 -10724706.68 0.2670 0.1244

Mercury -34069-05-02 05:59 J -10722157.35 -10722157.25 -10722157.15 0.2675 0.1565

Mercury -34066-11-11 12:14 J -10720869.11 -10720868.99 -10720868.87 0.2662 0.0974

Mercury -34063-05-12 14:52 J -10719955.94 -10719955.88 -10719955.82 0.2668 0.2295

Mercury -34059-11-03 20:38 J -10718319.72 -10718319.64 -10718319.56 0.2657 0.2128

Mercury -34056-05-05 03:07 J -10717406.49 -10717406.37 -10717406.25 0.2673 0.0596

Mercury -34053-11-13 10:47 J -10716118.14 -10716118.05 -10716117.97 0.2664 0.2011

Mercury -34046-11-06 19:55 J -10713568.79 -10713568.67 -10713568.54 0.2659 0.0998

Mercury -34043-05-08 00:43 J -10712655.60 -10712655.47 -10712655.35 0.2671 0.0415

Mercury -34036-04-30 14:09 J -10710105.96 -10710105.91 -10710105.85 0.2676 0.2342

Mercury -34033-11-08 18:57 J -10708817.84 -10708817.71 -10708817.58 0.2660 0.0107

Mercury -34030-05-10 22:19 J -10707904.67 -10707904.57 -10707904.46 0.2670 0.1438

Mercury -34023-05-03 11:16 J -10705355.14 -10705355.03 -10705354.93 0.2675 0.1391

Mercury -34020-11-11 17:45 J -10704066.88 -10704066.76 -10704066.64 0.2662 0.1165

Mercury -34017-05-12 20:23 J -10703153.70 -10703153.65 -10703153.61 0.2668 0.2490

Mercury -34013-11-04 02:09 J -10701517.50 -10701517.41 -10701517.32 0.2657 0.1922

Mercury -34010-05-06 08:23 J -10700604.27 -10700604.15 -10700604.02 0.2673 0.0421

Mercury -34007-11-14 16:04 J -10699315.90 -10699315.83 -10699315.76 0.2664 0.2197

34TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 34th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-34000-11-07 01:26 J	-10696766.56	-10696766.44	-10696766.31	0.2659	0.0797		
Mercury	-33997-05-08 05:59 J	-10695853.37	-10695853.25	-10695853.13	0.2671	0.0593		
Mercury	-33990-05-01 19:26 J	-10693303.76	-10693303.69	-10693303.62	0.2676	0.2169		
Mercury	-33987-11-10 00:28 J	-10692015.61	-10692015.48	-10692015.35	0.2661	0.0294		
Venus	-33985-04-18 19:11 J	-10691489.85	-10691489.70	-10691489.55	0.2684	0.0271		
Mercury	-33984-05-11 03:50 J	-10691102.45	-10691102.34	-10691102.24	0.2669	0.1627		
Mercury	-33977-05-03 16:33 J	-10688552.92	-10688552.81	-10688552.70	0.2674	0.1215		
Mercury	-33974-11-12 23:16 J	-10687264.65	-10687264.53	-10687264.42	0.2662	0.1359		
Mercury	-33967-11-05 07:40 J	-10684715.28	-10684715.18	-10684715.07	0.2658	0.1721		
Mercury	-33964-05-06 13:40 J	-10683802.05	-10683801.93	-10683801.80	0.2673	0.0248		
Mercury	-33961-11-14 21:35 J	-10682513.66	-10682513.60	-10682513.55	0.2664	0.2382		
Mercury	-33954-11-08 06:57 J	-10679964.33	-10679964.21	-10679964.08	0.2659	0.0603		
Mercury	-33951-05-09 11:16 J	-10679051.15	-10679051.03	-10679050.91	0.2671	0.0782		
Mercury	-33944-05-02 00:43 J	-10676501.55	-10676501.47	-10676501.39	0.2676	0.1997		
Mercury	-33941-11-10 05:59 J	-10675213.38	-10675213.25	-10675213.12	0.2661	0.0493		
Mercury	-33938-05-12 09:07 J	-10674300.21	-10674300.12	-10674300.03	0.2669	0.1820		
Mercury	-33931-05-04 21:50 J	-10671750.71	-10671750.59	-10671750.48	0.2674	0.1039		
Mercury	-33928-11-13 04:33 J	-10670462.41	-10670462.31	-10670462.20	0.2663	0.1546		
Mercury	-33921-11-05 13:26 J	-10667913.05	-10667912.94	-10667912.83	0.2658	0.1512		
Mercury	-33918-05-07 19:11 J	-10666999.83	-10666999.70	-10666999.58	0.2672	0.0072		
Mercury	-33915-11-16 02:52 J	-10665711.41	-10665711.38	-10665711.35	0.2665	0.2569		
Mercury	-33908-11-08 12:43 J	-10663162.11	-10663161.97	-10663161.84	0.2659	0.0407		

Mercury -33905-05-09 16:47 J -10662248.92 -10662248.80 -10662248.69 0.2670 0.0970

Mercury -33898-05-03 05:59 J -10659699.34 -10659699.25 -10659699.16 0.2675 0.1823

Mercury -33895-11-11 11:31 J -10658411.15 -10658411.02 -10658410.89 0.2661 0.0687

Mercury -33892-05-12 14:23 J -10657497.98 -10657497.90 -10657497.81 0.2669 0.2013

Mercury -33888-11-03 19:26 J -10655861.74 -10655861.69 -10655861.64 0.2656 0.2456

Mercury -33885-05-05 03:07 J -10654948.49 -10654948.37 -10654948.25 0.2674 0.0859

Mercury -33882-11-14 10:04 J -10653660.18 -10653660.08 -10653659.98 0.2663 0.1739

Venus -33880-10-22 11:16 J -10652952.17 -10652952.03 -10652951.89 0.2649 0.1346

Mercury -33875-11-06 18:57 J -10651110.82 -10651110.71 -10651110.59 0.2658 0.1312

Mercury -33872-05-08 00:28 J -10650197.61 -10650197.48 -10650197.36 0.2672 0.0138

Mercury -33865-04-30 14:23 J -10647647.93 -10647647.90 -10647647.87 0.2677 0.2588

Mercury -33862-11-09 18:14 J -10646359.87 -10646359.74 -10646359.61 0.2660 0.0203

Mercury -33859-05-10 22:04 J -10645446.69 -10645446.58 -10645446.47 0.2670 0.1158

Mercury -33852-05-03 11:16 J -10642897.13 -10642897.03 -10642896.93 0.2675 0.1646

Mercury -33849-11-11 17:02 J -10641608.91 -10641608.79 -10641608.67 0.2661 0.0883

Mercury -33846-05-13 19:55 J -10640695.74 -10640695.67 -10640695.60 0.2668 0.2206

Mercury -33842-11-05 01:11 J -10639059.52 -10639059.45 -10639059.39 0.2657 0.2254

Mercury -33839-05-06 08:23 J -10638146.27 -10638146.15 -10638146.03 0.2673 0.0678

Mercury -33836-11-14 15:35 J -10636857.94 -10636857.85 -10636857.76 0.2663 0.1927

Mercury -33829-11-07 00:28 J -10634308.60 -10634308.48 -10634308.36 0.2658 0.1108

Mercury -33826-05-09 05:45 J -10633395.38 -10633395.26 -10633395.13 0.2672 0.0322

Mercury -33819-05-01 19:40 J -10630845.73 -10630845.68 -10630845.63 0.2677 0.2415

Mercury -33816-11-09 23:45 J -10629557.65 -10629557.51 -10629557.38 0.2660 0.0063

Mercury -33813-05-11 03:21 J -10628644.47 -10628644.36 -10628644.25 0.2670 0.1344

Mercury -33806-05-04 16:33 J -10626094.91 -10626094.81 -10626094.71 0.2675 0.1471

Mercury -33803-11-12 22:33 J -10624806.68 -10624806.56 -10624806.44 0.2662 0.1078

Mercury -33800-05-14 01:11 J -10623893.50 -10623893.45 -10623893.39 0.2668 0.2400

Mercury -33796-11-05 06:43 J -10622257.31 -10622257.22 -10622257.14 0.2657 0.2046

Mercury -33793-05-06 13:40 J -10621344.05 -10621343.93 -10621343.81 0.2673 0.0498

Mercury -33790-11-15 21:07 J -10620055.70 -10620055.62 -10620055.55 0.2664 0.2120

Mercury -33783-11-08 05:59 J -10617506.37 -10617506.25 -10617506.12 0.2659 0.0913

Mercury -33780-05-09 11:02 J -10616593.16 -10616593.04 -10616592.91 0.2672 0.0517

Mercury -33773-05-02 00:57 J -10614043.53 -10614043.46 -10614043.40 0.2676 0.2248

Mercury -33770-11-11 05:16 J -10612755.41 -10612755.28 -10612755.15 0.2660 0.0205

Mercury -33767-05-12 08:52 J -10611842.24 -10611842.13 -10611842.03 0.2670 0.1539

Mercury -33760-05-04 21:50 J -10609292.70 -10609292.59 -10609292.48 0.2675 0.1295

Mercury -33757-11-13 04:04 J -10608004.45 -10608004.33 -10608004.22 0.2662 0.1272

Mercury -33754-05-15 06:43 J -10607091.25 -10607091.22 -10607091.19 0.2668 0.2594

Mercury -33750-11-06 12:14 J -10605455.08 -10605454.99 -10605454.89 0.2657 0.1841

Mercury -33747-05-07 18:57 J -10604541.83 -10604541.71 -10604541.58 0.2673 0.0328

Mercury -33744-11-16 02:23 J -10603253.46 -10603253.40 -10603253.34 0.2664 0.2305

Venus -33742-04-19 23:31 J -10602733.67 -10602733.52 -10602733.37 0.2685 0.0563

Mercury -33737-11-08 11:45 J -10600704.14 -10600704.01 -10600703.89 0.2659 0.0709

Venus -33734-04-17 17:59 J -10599813.78 -10599813.75 -10599813.72 0.2686 0.2608

Mercury -33734-05-10 16:33 J -10599790.93 -10599790.81 -10599790.69 0.2671 0.0697

Mercury -33727-05-03 06:14 J -10597241.32 -10597241.24 -10597241.17 0.2676 0.2075

Mercury -33724-11-11 10:47 J -10595953.18 -10595953.05 -10595952.92 0.2661 0.0399

Mercury -33721-05-12 14:09 J -10595040.01 -10595039.91 -10595039.81 0.2670 0.1729

Mercury -33714-05-06 03:07 J -10592490.48 -10592490.37 -10592490.26 0.2674 0.1117

Mercury -33711-11-14 09:21 J -10591202.21 -10591202.11 -10591202.00 0.2662 0.1464

Mercury -33704-11-06 17:59 J -10588652.86 -10588652.75 -10588652.65 0.2658 0.1636

Mercury -33701-05-08 00:14 J -10587739.61 -10587739.49 -10587739.36 0.2673 0.0161

Mercury -33698-11-17 07:55 J -10586451.22 -10586451.17 -10586451.13 0.2664 0.2494

Mercury -33691-11-09 17:16 J -10583901.91 -10583901.78 -10583901.65 0.2659 0.0505

Mercury -33688-05-10 21:50 J -10582988.71 -10582988.59 -10582988.47 0.2671 0.0882

Mercury -33681-05-03 11:16 J -10580439.11 -10580439.03 -10580438.94 0.2676 0.1904

Mercury -33678-11-12 16:19 J -10579150.95 -10579150.82 -10579150.69 0.2661 0.0596

Mercury -33675-05-13 19:40 J -10578237.77 -10578237.68 -10578237.60 0.2669 0.1928

Mercury -33671-11-04 23:59 J -10576601.53 -10576601.50 -10576601.48 0.2656 0.2588

Mercury -33668-05-06 08:23 J -10575688.26 -10575688.15 -10575688.03 0.2674 0.0937

Mercury -33665-11-14 14:52 J -10574399.98 -10574399.88 -10574399.78 0.2663 0.1651

Mercury -33658-11-07 23:31 J -10571850.63 -10571850.52 -10571850.41 0.2658 0.1426

Mercury -33655-05-09 05:45 J -10570937.39 -10570937.26 -10570937.14 0.2672 0.0078

Mercury -33648-05-01 19:55 J -10568387.68 -10568387.67 -10568387.67 0.2677 0.2667

Mercury -33645-11-09 22:47 J -10567099.68 -10567099.55 -10567099.42 0.2659 0.0301

Mercury -33642-05-12 03:07 J -10566186.48 -10566186.37 -10566186.25 0.2670 0.1072

Venus -33637-10-22 09:07 J -10564196.26 -10564196.12 -10564195.98 0.2648 0.1308

Mercury -33635-05-04 16:33 J -10563636.90 -10563636.81 -10563636.71 0.2675 0.1729

Mercury -33632-11-12 21:50 J -10562348.72 -10562348.59 -10562348.47 0.2661 0.0791

Mercury -33629-05-14 00:57 J -10561435.54 -10561435.46 -10561435.38 0.2669 0.2117

Mercury -33625-11-05 05:31 J -10559799.33 -10559799.27 -10559799.21 0.2656 0.2376

Mercury -33622-05-07 13:40 J -10558886.05 -10558885.93 -10558885.81 0.2674 0.0760

Mercury -33619-11-15 20:23 J -10557597.74 -10557597.65 -10557597.56 0.2663 0.1846

Mercury -33612-11-08 05:02 J -10555048.40 -10555048.29 -10555048.17 0.2658 0.1224

Mercury -33609-05-09 11:02 J -10554135.17 -10554135.04 -10554134.92 0.2672 0.0241

Mercury -33602-05-03 00:57 J -10551585.50 -10551585.46 -10551585.41 0.2677 0.2498

Mercury -33599-11-11 04:19 J -10550297.45 -10550297.32 -10550297.19 0.2660 0.0111

Mercury -33596-05-12 08:38 J -10549384.25 -10549384.14 -10549384.03 0.2670 0.1264

Mercury -33589-05-04 21:50 J -10546834.69 -10546834.59 -10546834.49 0.2675 0.1553

Mercury -33586-11-14 03:07 J -10545546.49 -10545546.37 -10545546.24 0.2661 0.0991

Mercury -33583-05-15 06:28 J -10544633.29 -10544633.23 -10544633.17 0.2669 0.2316

Mercury -33579-11-06 11:16 J -10542997.11 -10542997.03 -10542996.96 0.2657 0.2169

Mercury -33576-05-07 18:57 J -10542083.83 -10542083.71 -10542083.59 0.2674 0.0579

Mercury -33573-11-16 01:55 J -10540795.51 -10540795.42 -10540795.34 0.2663 0.2036

Mercury -33566-11-09 10:47 J -10538246.18 -10538246.05 -10538245.93 0.2658 0.1018

Mercury -33563-05-10 16:19 J -10537332.94 -10537332.82 -10537332.70 0.2672 0.0422

Mercury -33556-05-03 06:14 J -10534783.29 -10534783.24 -10534783.18 0.2677 0.2323

Mercury -33553-11-11 09:50 J -10533495.22 -10533495.09 -10533494.96 0.2660 0.0107

Mercury -33550-05-13 13:55 J -10532582.03 -10532581.92 -10532581.82 0.2670 0.1451

Mercury -33543-05-06 03:07 J -10530032.47 -10530032.37 -10530032.26 0.2675 0.1376

Mercury -33540-11-14 08:38 J -10528744.25 -10528744.14 -10528744.02 0.2662 0.1183

Mercury -33537-05-15 11:45 J -10527831.05 -10527831.01 -10527830.97 0.2668 0.2511

Mercury -33533-11-06 16:47 J -10526194.89 -10526194.80 -10526194.71 0.2657 0.1958

Mercury -33530-05-09 00:14 J -10525281.61 -10525281.49 -10525281.37 0.2673 0.0398

Mercury -33527-11-17 07:11 J -10523993.26 -10523993.20 -10523993.13 0.2664 0.2230

Mercury -33520-11-09 16:19 J -10521443.95 -10521443.82 -10521443.69 0.2659 0.0812

Mercury -33517-05-10 21:35 J -10520530.72 -10520530.60 -10520530.48 0.2672 0.0608

Mercury -33510-05-04 11:31 J -10517981.09 -10517981.02 -10517980.95 0.2677 0.2153

Mercury -33507-11-12 15:21 J -10516692.99 -10516692.86 -10516692.73 0.2660 0.0306

Mercury -33504-05-13 19:11 J -10515779.80 -10515779.70 -10515779.60 0.2670 0.1648

Venus -33499-04-20 03:50 J -10513977.48 -10513977.34 -10513977.19 0.2685 0.0876

Mercury -33497-05-06 08:23 J -10513230.26 -10513230.15 -10513230.04 0.2675 0.1196

Mercury -33494-11-15 14:09 J -10511942.02 -10511941.91 -10511941.80 0.2662 0.1376

Venus -33491-04-17 22:19 J -10511057.65 -10511057.57 -10511057.50 0.2687 0.2323

Mercury -33487-11-07 22:19 J -10509392.67 -10509392.57 -10509392.47 0.2657 0.1754

Mercury -33484-05-09 05:31 J -10508479.39 -10508479.27 -10508479.14 0.2673 0.0230

Mercury -33481-11-17 12:43 J -10507191.02 -10507190.97 -10507190.92 0.2664 0.2416

Mercury -33474-11-10 21:50 J -10504641.72 -10504641.59 -10504641.46 0.2659 0.0609

Mercury -33471-05-12 02:52 J -10503728.50 -10503728.38 -10503728.26 0.2671 0.0803

Mercury -33464-05-04 16:47 J -10501178.88 -10501178.80 -10501178.72 0.2676 0.1975

Mercury -33461-11-12 20:52 J -10499890.76 -10499890.63 -10499890.50 0.2660 0.0500

Mercury -33458-05-15 00:43 J -10498977.56 -10498977.47 -10498977.38 0.2669 0.1837

Mercury -33451-05-07 13:40 J -10496428.04 -10496427.93 -10496427.81 0.2674 0.1020

Mercury -33448-11-15 19:40 J -10495139.78 -10495139.68 -10495139.57 0.2662 0.1571

Mercury -33441-11-08 04:04 J -10492590.44 -10492590.33 -10492590.22 0.2657 0.1545

Mercury -33438-05-10 10:47 J -10491677.17 -10491677.05 -10491676.92 0.2673 0.0100

Mercury -33435-11-18 18:14 J -10490388.76 -10490388.74 -10490388.72 0.2664 0.2609

Mercury -33428-11-11 03:21 J -10487839.49 -10487839.36 -10487839.23 0.2659 0.0412

Mercury -33425-05-12 08:23 J -10486926.27 -10486926.15 -10486926.03 0.2671 0.0990

Mercury -33418-05-05 22:04 J -10484376.67 -10484376.58 -10484376.49 0.2676 0.1806

Mercury -33415-11-14 02:23 J -10483088.52 -10483088.40 -10483088.27 0.2661 0.0698

Mercury -33412-05-15 05:59 J -10482175.33 -10482175.25 -10482175.17 0.2669 0.2036

Mercury -33408-11-06 09:50 J -10480539.13 -10480539.09 -10480539.04 0.2656 0.2503

Mercury -33405-05-07 18:57 J -10479625.83 -10479625.71 -10479625.59 0.2674 0.0838

Mercury -33402-11-17 01:11 J -10478337.55 -10478337.45 -10478337.35 0.2663 0.1763

Mercury -33395-11-09 09:35 J -10475788.21 -10475788.10 -10475787.98 0.2658 0.1337

Venus -33394-10-23 06:43 J -10475440.37 -10475440.22 -10475440.07 0.2647 0.1226

Mercury -33392-05-10 16:19 J -10474874.95 -10474874.82 -10474874.70 0.2672 0.0168

Mercury -33385-05-03 06:28 J -10472325.26 -10472325.23 -10472325.20 0.2677 0.2570

Mercury -33382-11-12 08:52 J -10471037.26 -10471037.13 -10471036.99 0.2659 0.0212

Mercury -33379-05-13 13:40 J -10470124.04 -10470123.93 -10470123.82 0.2671 0.1180

Mercury -33372-05-06 03:21 J -10467574.46 -10467574.36 -10467574.27 0.2676 0.1629

Mercury -33369-11-14 07:55 J -10466286.29 -10466286.17 -10466286.04 0.2661 0.0891

Mercury -33366-05-16 11:31 J -10465373.09 -10465373.02 -10465372.95 0.2669 0.2231

Mercury -33362-11-07 15:35 J -10463736.91 -10463736.85 -10463736.78 0.2656 0.2291

Mercury -33359-05-09 00:14 J -10462823.61 -10462823.49 -10462823.37 0.2674 0.0660

Mercury -33356-11-17 06:43 J -10461535.31 -10461535.22 -10461535.13 0.2663 0.1957

Mercury -33349-11-09 15:21 J -10458985.98 -10458985.86 -10458985.74 0.2658 0.1131

Mercury -33346-05-11 21:35 J -10458072.73 -10458072.60 -10458072.48 0.2672 0.0346

Mercury -33339-05-04 11:45 J -10455523.06 -10455523.01 -10455522.96 0.2677 0.2403

Mercury -33336-11-12 14:38 J -10454235.03 -10454234.89 -10454234.76 0.2660 0.0092

Mercury -33333-05-13 19:11 J -10453321.81 -10453321.70 -10453321.60 0.2670 0.1375

Mercury -33326-05-07 08:38 J -10450772.25 -10450772.14 -10450772.04 0.2675 0.1454

Mercury -33323-11-15 13:26 J -10449484.06 -10449483.94 -10449483.82 0.2661 0.1091

Mercury -33320-05-16 16:47 J -10448570.85 -10448570.80 -10448570.75 0.2669 0.2429

Mercury -33316-11-07 21:21 J -10446934.70 -10446934.61 -10446934.53 0.2656 0.2080

Mercury -33313-05-09 05:31 J -10446021.39 -10446021.27 -10446021.14 0.2674 0.0479

Mercury -33310-11-18 11:59 J -10444733.07 -10444733.00 -10444732.92 0.2663 0.2148

Mercury -33303-11-10 20:52 J -10442183.76 -10442183.63 -10442183.51 0.2658 0.0923

Mercury -33300-05-12 02:52 J -10441270.50 -10441270.38 -10441270.26 0.2672 0.0529

Mercury -33293-05-04 17:02 J -10438720.86 -10438720.79 -10438720.73 0.2677 0.2227

Mercury -33290-11-13 20:09 J -10437432.80 -10437432.66 -10437432.53 0.2660 0.0212

Mercury -33287-05-15 00:28 J -10436519.58 -10436519.48 -10436519.38 0.2670 0.1563

Mercury -33280-05-07 13:40 J -10433970.03 -10433969.93 -10433969.82 0.2675 0.1281

Mercury -33277-11-15 18:57 J -10432681.82 -10432681.71 -10432681.59 0.2662 0.1288

Mercury -33274-05-17 22:19 J -10431768.59 -10431768.57 -10431768.55 0.2668 0.2624

Mercury -33270-11-09 02:52 J -10430132.47 -10430132.38 -10430132.29 0.2657 0.1870

Mercury -33267-05-10 10:47 J -10429219.17 -10429219.05 -10429218.92 0.2673 0.0298

Mercury -33264-11-18 17:31 J -10427930.83 -10427930.77 -10427930.71 0.2664 0.2343

Mercury -33257-11-11 02:23 J -10425381.53 -10425381.40 -10425381.27 0.2658 0.0718

Venus -33256-04-20 08:23 J -10425221.29 -10425221.15 -10425221.02 0.2686 0.1163

Mercury -33254-05-13 08:09 J -10424468.28 -10424468.16 -10424468.04 0.2672 0.0722

Venus -33248-04-18 02:38 J -10422301.49 -10422301.39 -10422301.29 0.2688 0.2011

Mercury -33247-05-05 22:04 J -10421918.65 -10421918.58 -10421918.50 0.2677 0.2059

Mercury -33244-11-14 01:40 J -10420630.56 -10420630.43 -10420630.30 0.2660 0.0404

Mercury -33241-05-15 05:45 J -10419717.35 -10419717.26 -10419717.16 0.2670 0.1757

Mercury -33234-05-08 18:57 J -10417167.82 -10417167.71 -10417167.59 0.2675 0.1099

Mercury -33231-11-17 00:28 J -10415879.59 -10415879.48 -10415879.37 0.2662 0.1486

Mercury -33224-11-09 08:38 J -10413330.25 -10413330.14 -10413330.04 0.2657 0.1661

Mercury -33221-05-10 16:04 J -10412416.95 -10412416.83 -10412416.70 0.2673 0.0141

Mercury -33218-11-19 23:02 J -10411128.58 -10411128.54 -10411128.50 0.2664 0.2532

Mercury -33211-11-12 07:55 J -10408579.30 -10408579.17 -10408579.04 0.2659 0.0515

Mercury -33208-05-13 13:26 J -10407666.05 -10407665.94 -10407665.82 0.2671 0.0909

Mercury -33201-05-06 03:21 J -10405116.44 -10405116.36 -10405116.27 0.2676 0.1881

Mercury -33198-11-15 07:11 J -10403828.33 -10403828.20 -10403828.07 0.2660 0.0604

Mercury -33195-05-16 11:16 J -10402915.12 -10402915.03 -10402914.95 0.2670 0.1953

Mercury -33191-11-07 14:23 J -10401278.92 -10401278.90 -10401278.89 0.2655 0.2632

Mercury -33188-05-09 00:14 J -10400365.60 -10400365.49 -10400365.37 0.2675 0.0921

Mercury -33185-11-17 05:59 J -10399077.35 -10399077.25 -10399077.15 0.2662 0.1681

Mercury -33178-11-10 14:09 J -10396528.02 -10396527.91 -10396527.80 0.2657 0.1451

Mercury -33175-05-11 21:35 J -10395614.73 -10395614.60 -10395614.48 0.2673 0.0125

Mercury -33168-05-04 11:59 J -10393065.01 -10393065.00 -10393064.99 0.2678 0.2647

Mercury -33165-11-12 13:40 J -10391777.07 -10391776.93 -10391776.80 0.2659 0.0314

Mercury -33162-05-14 18:57 J -10390863.83 -10390863.71 -10390863.60 0.2671 0.1100

Mercury -33155-05-07 08:38 J -10388314.23 -10388314.14 -10388314.04 0.2676 0.1706

Mercury -33152-11-15 12:43 J -10387026.10 -10387025.97 -10387025.85 0.2661 0.0804

Venus -33151-10-23 04:33 J -10386684.46 -10386684.31 -10386684.16 0.2646 0.1184

Mercury -33149-05-16 16:33 J -10386112.88 -10386112.81 -10386112.74 0.2669 0.2146

Mercury -33145-11-07 19:55 J -10384476.72 -10384476.67 -10384476.61 0.2656 0.2419

Mercury -33142-05-10 05:45 J -10383563.38 -10383563.26 -10383563.14 0.2674 0.0736

Mercury -33139-11-18 11:31 J -10382275.11 -10382275.02 -10382274.93 0.2662 0.1877

Mercury -33132-11-10 19:40 J -10379725.80 -10379725.68 -10379725.56 0.2657 0.1245

Mercury -33129-05-12 02:52 J -10378812.51 -10378812.38 -10378812.26 0.2673 0.0266

Mercury -33122-05-05 17:16 J -10376262.83 -10376262.78 -10376262.74 0.2677 0.2475

Mercury -33119-11-13 19:11 J -10374974.83 -10374974.70 -10374974.57 0.2659 0.0111

Mercury -33116-05-15 00:14 J -10374061.60 -10374061.49 -10374061.38 0.2671 0.1290

Mercury -33109-05-07 13:55 J -10371512.02 -10371511.92 -10371511.82 0.2676 0.1527

Mercury -33106-11-16 18:14 J -10370223.86 -10370223.74 -10370223.62 0.2661 0.1003

Mercury -33103-05-17 21:50 J -10369310.65 -10369310.59 -10369310.53 0.2669 0.2342

Mercury -33099-11-09 01:40 J -10367674.50 -10367674.43 -10367674.36 0.2656 0.2206

Mercury -33096-05-10 10:47 J -10366761.17 -10366761.05 -10366760.92 0.2674 0.0563

Mercury -33093-11-18 17:02 J -10365472.87 -10365472.79 -10365472.71 0.2663 0.2074

Mercury -33086-11-12 01:26 J -10362923.57 -10362923.44 -10362923.32 0.2658 0.1039

Mercury -33083-05-13 08:09 J -10362010.28 -10362010.16 -10362010.04 0.2672 0.0454

Mercury -33076-05-05 22:19 J -10359460.63 -10359460.57 -10359460.51 0.2677 0.2306

Mercury -33073-11-14 00:43 J -10358172.60 -10358172.47 -10358172.34 0.2660 0.0100

Mercury -33070-05-16 05:31 J -10357259.37 -10357259.27 -10357259.16 0.2671 0.1487

Mercury -33063-05-08 19:11 J -10354709.81 -10354709.70 -10354709.60 0.2676 0.1353

Mercury -33060-11-16 23:45 J -10353421.63 -10353421.51 -10353421.40 0.2661 0.1202

Mercury -33057-05-18 03:21 J -10352508.40 -10352508.36 -10352508.32 0.2669 0.2542

Mercury -33053-11-09 07:26 J -10350872.28 -10350872.19 -10350872.11 0.2656 0.1991

Mercury -33050-05-11 16:19 J -10349958.95 -10349958.82 -10349958.70 0.2674 0.0377

Mercury -33047-11-19 22:19 J -10348670.63 -10348670.57 -10348670.50 0.2663 0.2266

Mercury -33040-11-12 06:57 J -10346121.34 -10346121.21 -10346121.08 0.2658 0.0827

Mercury -33037-05-13 13:26 J -10345208.06 -10345207.94 -10345207.82 0.2672 0.0638

Mercury -33030-05-07 03:35 J -10342658.42 -10342658.35 -10342658.28 0.2677 0.2131

Mercury -33027-11-15 06:14 J -10341370.37 -10341370.24 -10341370.11 0.2660 0.0304

Mercury -33024-05-16 11:02 J -10340457.14 -10340457.04 -10340456.95 0.2670 0.1677

Mercury -33017-05-09 00:28 J -10337907.59 -10337907.48 -10337907.37 0.2675 0.1173

Mercury -33014-11-18 05:16 J -10336619.39 -10336619.28 -10336619.17 0.2662 0.1398

Venus -33013-04-20 12:43 J -10336465.09 -10336464.97 -10336464.84 0.2687 0.1475

Mercury -33007-11-10 12:57 J -10334070.06 -10334069.96 -10334069.86 0.2657 0.1780

Venus -33005-04-18 07:11 J -10333545.32 -10333545.20 -10333545.09 0.2688 0.1724

Mercury -33004-05-11 21:21 J -10333156.73 -10333156.61 -10333156.48 0.2673 0.0213

Mercury -33001-11-20 03:50 J -10331868.39 -10331868.34 -10331868.29 0.2663 0.2459

33RD MILLENNIUM BCE

This is a list of transits visible from Earth in the 33rd millennium BCE.

PLANET	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
	TRANSIT							
	TIME							

Mercury -32994-11-13 12:28 J -10329319.11 -10329318.98 -10329318.85 0.2658 0.0623

Mercury -32991-05-14 18:43 J -10328405.84 -10328405.72 -10328405.60 0.2672 0.0830

Mercury -32984-05-07 08:52 J -10325856.21 -10325856.13 -10325856.05 0.2677 0.1959

Mercury -32981-11-15 11:45 J -10324568.14 -10324568.01 -10324567.88 0.2660 0.0511

Mercury -32978-05-17 16:19 J -10323654.91 -10323654.82 -10323654.73 0.2670 0.1870

Mercury -32971-05-10 05:45 J -10321105.38 -10321105.26 -10321105.15 0.2675 0.0992

Mercury -32968-11-18 10:47 J -10319817.16 -10319817.05 -10319816.95 0.2662 0.1599

Mercury -32961-11-10 18:43 J -10317267.83 -10317267.72 -10317267.62 0.2657 0.1569

Mercury -32958-05-13 02:52 J -10316354.51 -10316354.38 -10316354.26 0.2673 0.0066

Mercury -32955-11-21 09:21 J -10315066.12 -10315066.11 -10315066.10 0.2664 0.2650

Mercury -32948-11-13 18:14 J -10312516.87 -10312516.74 -10312516.61 0.2658 0.0414

Mercury -32945-05-14 23:59 J -10311603.61 -10311603.50 -10311603.38 0.2671 0.1020

Mercury -32938-05-08 14:09 J -10309054.00 -10309053.91 -10309053.82 0.2676 0.1778

Mercury -32935-11-16 17:16 J -10307765.90 -10307765.78 -10307765.65 0.2660 0.0716

Mercury -32932-05-17 21:35 J -10306852.68 -10306852.60 -10306852.52 0.2670 0.2065

Mercury -32928-11-09 00:28 J -10305216.52 -10305216.48 -10305216.45 0.2655 0.2545

Mercury -32925-05-10 11:02 J -10304303.16 -10304303.04 -10304302.92 0.2675 0.0815

Mercury -32922-11-19 16:19 J -10303014.92 -10303014.82 -10303014.73 0.2662 0.1797

Mercury -32915-11-12 00:14 J -10300465.61 -10300465.49 -10300465.37 0.2657 0.1356

Mercury -32912-05-13 08:09 J -10299552.29 -10299552.16 -10299552.04 0.2673 0.0201

Venus -32908-10-23 02:23 J -10297928.55 -10297928.40 -10297928.25 0.2645 0.1140

Mercury -32905-05-05 22:33 J -10297002.59 -10297002.56 -10297002.52 0.2678 0.2550

Mercury -32902-11-14 23:45 J -10295714.64 -10295714.51 -10295714.38 0.2659 0.0203

Mercury -32899-05-16 05:31 J -10294801.38 -10294801.27 -10294801.16 0.2671 0.1212

Mercury -32892-05-08 19:26 J -10292251.79 -10292251.69 -10292251.60 0.2676 0.1605

Mercury -32889-11-16 22:47 J -10290963.67 -10290963.55 -10290963.42 0.2661 0.0915

Mercury -32886-05-19 03:07 J -10290050.44 -10290050.37 -10290050.31 0.2669 0.2261

Mercury -32882-11-10 05:59 J -10288414.31 -10288414.25 -10288414.18 0.2656 0.2328

Mercury -32879-05-11 16:19 J -10287500.94 -10287500.82 -10287500.70 0.2674 0.0627

Mercury -32876-11-19 21:50 J -10286212.68 -10286212.59 -10286212.51 0.2662 0.1996

Mercury -32869-11-12 05:59 J -10283663.38 -10283663.25 -10283663.13 0.2657 0.1148

Mercury -32866-05-14 13:26 J -10282750.07 -10282749.94 -10282749.82 0.2673 0.0375

Mercury -32859-05-07 03:50 J -10280200.39 -10280200.34 -10280200.28 0.2678 0.2377

Mercury -32856-11-15 05:16 J -10278912.41 -10278912.28 -10278912.15 0.2659 0.0020

Mercury -32853-05-16 10:47 J -10277999.16 -10277999.05 -10277998.95 0.2671 0.1399

Mercury -32846-05-10 00:43 J -10275449.58 -10275449.47 -10275449.37 0.2676 0.1425

Mercury -32843-11-18 04:19 J -10274161.44 -10274161.32 -10274161.20 0.2661 0.1116

Mercury -32840-05-19 08:23 J -10273248.19 -10273248.15 -10273248.10 0.2669 0.2461

Mercury -32836-11-10 11:45 J -10271612.09 -10271612.01 -10271611.93 0.2656 0.2117

Mercury -32833-05-11 21:35 J -10270698.73 -10270698.60 -10270698.48 0.2674 0.0450

Mercury -32830-11-21 03:07 J -10269410.44 -10269410.37 -10269410.29 0.2663 0.2191

Mercury -32823-11-13 11:31 J -10266861.15 -10266861.02 -10266860.90 0.2658 0.0935

Mercury -32820-05-14 18:43 J -10265947.84 -10265947.72 -10265947.60 0.2672 0.0562

Mercury -32813-05-07 09:07 J -10263398.19 -10263398.12 -10263398.05 0.2677 0.2205

Mercury -32810-11-16 10:47 J -10262110.18 -10262110.05 -10262109.91 0.2659 0.0220

Mercury -32807-05-17 16:04 J -10261196.93 -10261196.83 -10261196.73 0.2671 0.1598

Mercury -32800-05-10 05:45 J -10258647.36 -10258647.26 -10258647.15 0.2676 0.1249

Mercury -32797-11-18 09:50 J -10257359.20 -10257359.09 -10257358.97 0.2661 0.1317

Mercury -32794-05-20 13:55 J -10256445.93 -10256445.92 -10256445.92 0.2669 0.2656

Mercury -32790-11-11 17:16 J -10254809.87 -10254809.78 -10254809.68 0.2656 0.1901

Mercury -32787-05-13 02:52 J -10253896.51 -10253896.38 -10253896.26 0.2674 0.0263

Mercury -32784-11-21 08:38 J -10252608.19 -10252608.14 -10252608.08 0.2663 0.2385

Mercury -32777-11-13 17:02 J -10250058.92 -10250058.79 -10250058.66 0.2658 0.0728

Mercury -32774-05-15 23:59 J -10249145.62 -10249145.50 -10249145.38 0.2672 0.0751

Venus -32770-04-21 17:02 J -10247708.90 -10247708.79 -10247708.67 0.2688 0.1762

Mercury -32767-05-08 14:23 J -10246595.98 -10246595.90 -10246595.82 0.2677 0.2029

Mercury -32764-11-16 16:19 J -10245307.95 -10245307.82 -10245307.68 0.2660 0.0420

Venus -32762-04-19 11:16 J -10244789.16 -10244789.03 -10244788.90 0.2689 0.1428

Mercury -32761-05-17 21:35 J -10244394.70 -10244394.60 -10244394.51 0.2670 0.1792

Mercury -32754-05-11 11:02 J -10241845.15 -10241845.04 -10241844.92 0.2675 0.1069

Mercury -32751-11-19 15:21 J -10240556.96 -10240556.86 -10240556.75 0.2661 0.1517

Mercury -32744-11-11 23:02 J -10238007.64 -10238007.54 -10238007.44 0.2656 0.1687

Mercury -32741-05-13 08:09 J -10237094.29 -10237094.16 -10237094.04 0.2674 0.0108

Mercury -32738-11-22 14:09 J -10235805.94 -10235805.91 -10235805.88 0.2663 0.2581

Mercury -32731-11-14 22:47 J -10233256.69 -10233256.55 -10233256.42 0.2658 0.0526

Mercury -32728-05-16 05:16 J -10232343.39 -10232343.28 -10232343.16 0.2672 0.0946

Mercury -32721-05-08 19:26 J -10229793.77 -10229793.69 -10229793.60 0.2677 0.1858

Mercury -32718-11-17 22:04 J -10228505.71 -10228505.58 -10228505.46 0.2660 0.0622

Mercury -32715-05-19 02:52 J -10227592.46 -10227592.38 -10227592.30 0.2670 0.1987

Mercury -32708-05-11 16:19 J -10225042.94 -10225042.82 -10225042.70 0.2675 0.0887

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Mercury -32698-11-13 04:47 J -10221205.41 -10221205.30 -10221205.19 0.2657 0.1469

Mercury -32695-05-14 13:26 J -10220292.07 -10220291.94 -10220291.82 0.2673 0.0117

Mercury -32688-05-07 04:04 J -10217742.35 -10217742.33 -10217742.30 0.2678 0.2624

Mercury -32685-11-15 04:19 J -10216454.45 -10216454.32 -10216454.19 0.2658 0.0310

Mercury -32682-05-17 10:33 J -10215541.17 -10215541.06 -10215540.94 0.2671 0.1133

Mercury -32675-05-10 00:43 J -10212991.56 -10212991.47 -10212991.37 0.2676 0.1679

Mercury -32672-11-18 03:35 J -10211703.48 -10211703.35 -10211703.23 0.2660 0.0823

Mercury -32669-05-19 08:09 J -10210790.23 -10210790.16 -10210790.09 0.2670 0.2185

Venus -32665-10-23 00:14 J -10209172.64 -10209172.49 -10209172.34 0.2644 0.1087

Mercury -32665-11-10 10:33 J -10209154.11 -10209154.06 -10209154.02 0.2655 0.2454

Mercury -32662-05-12 21:35 J -10208240.72 -10208240.60 -10208240.48 0.2675 0.0706

Mercury -32659-11-21 02:23 J -10206952.49 -10206952.40 -10206952.31 0.2662 0.1912

Mercury -32652-11-13 10:19 J -10204403.19 -10204403.07 -10204402.95 0.2657 0.1259

Mercury -32649-05-14 18:43 J -10203489.85 -10203489.72 -10203489.60 0.2673 0.0298

Mercury -32642-05-08 09:21 J -10200940.15 -10200940.11 -10200940.06 0.2678 0.2450

Mercury -32639-11-16 09:50 J -10199652.22 -10199652.09 -10199651.95 0.2659 0.0112

Mercury -32636-05-17 16:04 J -10198738.94 -10198738.83 -10198738.72 0.2671 0.1328

Mercury -32629-05-10 05:59 J -10196189.35 -10196189.25 -10196189.15 0.2676 0.1500

Mercury -32626-11-19 09:07 J -10194901.24 -10194901.12 -10194901.00 0.2660 0.1025

Mercury -32623-05-20 13:40 J -10193987.99 -10193987.93 -10193987.88 0.2669 0.2380

Mercury -32619-11-11 16:04 J -10192351.90 -10192351.83 -10192351.76 0.2656 0.2236

Mercury -32616-05-13 02:52 J -10191438.50 -10191438.38 -10191438.26 0.2674 0.0523

Mercury -32613-11-21 07:55 J -10190150.25 -10190150.17 -10190150.09 0.2662 0.2112

Mercury -32606-11-14 15:50 J -10187600.96 -10187600.84 -10187600.71 0.2657 0.1049

Mercury -32603-05-15 23:59 J -10186687.62 -10186687.50 -10186687.38 0.2673 0.0484

Mercury -32596-05-08 14:38 J -10184137.95 -10184137.89 -10184137.83 0.2678 0.2275

Mercury -32593-11-16 15:21 J -10182849.99 -10182849.86 -10182849.72 0.2659 0.0138

Mercury -32590-05-18 21:21 J -10181936.71 -10181936.61 -10181936.51 0.2671 0.1515

Mercury -32583-05-11 11:16 J -10179387.14 -10179387.03 -10179386.92 0.2676 0.1320

Mercury -32580-11-19 14:38 J -10178099.01 -10178098.89 -10178098.77 0.2661 0.1229

Mercury -32577-05-20 18:57 J -10177185.74 -10177185.71 -10177185.68 0.2669 0.2579

Mercury -32573-11-11 21:50 J -10175549.68 -10175549.59 -10175549.51 0.2656 0.2023

Mercury -32570-05-14 08:09 J -10174636.28 -10174636.16 -10174636.04 0.2674 0.0341

Mercury -32567-11-22 13:26 J -10173348.00 -10173347.94 -10173347.88 0.2663 0.2310

Mercury -32560-11-14 21:35 J -10170798.73 -10170798.60 -10170798.47 0.2657 0.0835

Mercury -32557-05-16 05:16 J -10169885.40 -10169885.28 -10169885.16 0.2672 0.0673

Mercury -32550-05-09 19:40 J -10167335.75 -10167335.68 -10167335.60 0.2677 0.2105

Mercury -32547-11-17 21:07 J -10166047.76 -10166047.62 -10166047.49 0.2659 0.0324

Mercury -32544-05-19 02:38 J -10165134.48 -10165134.39 -10165134.29 0.2671 0.1712

Mercury -32537-05-11 16:33 J -10162584.92 -10162584.81 -10162584.70 0.2676 0.1145

Mercury -32534-11-20 20:09 J -10161296.77 -10161296.66 -10161296.55 0.2661 0.1429

Venus -32527-04-21 21:21 J -10158952.70 -10158952.61 -10158952.51 0.2689 0.2062

Mercury -32527-11-13 03:21 J -10158747.45 -10158747.36 -10158747.26 0.2656 0.1806

Mercury -32524-05-14 13:26 J -10157834.06 -10157833.94 -10157833.82 0.2674 0.0151

Mercury -32521-11-22 18:57 J -10156545.75 -10156545.71 -10156545.67 0.2663 0.2508

Venus -32519-04-19 15:35 J -10156032.99 -10156032.85 -10156032.71 0.2690 0.1135

Mercury -32514-11-16 03:07 J -10153996.50 -10153996.37 -10153996.24 0.2658 0.0628

Mercury -32511-05-17 10:33 J -10153083.18 -10153083.06 -10153082.94 0.2672 0.0864

Mercury -32504-05-10 00:57 J -10150533.54 -10150533.46 -10150533.37 0.2677 0.1929

Mercury -32501-11-18 02:38 J -10149245.52 -10149245.39 -10149245.26 0.2659 0.0523

Mercury -32498-05-20 07:55 J -10148332.25 -10148332.17 -10148332.08 0.2671 0.1907

Mercury -32491-05-12 21:50 J -10145782.71 -10145782.59 -10145782.48 0.2675 0.0964

Mercury -32488-11-21 01:40 J -10144494.53 -10144494.43 -10144494.33 0.2661 0.1632

Mercury -32481-11-13 09:07 J -10141945.23 -10141945.12 -10141945.01 0.2656 0.1592
 Mercury -32478-05-15 18:43 J -10141031.85 -10141031.72 -10141031.60 0.2674 0.0035
 Mercury -32468-11-16 08:52 J -10137194.27 -10137194.13 -10137194.00 0.2658 0.0415
 Mercury -32465-05-17 15:50 J -10136280.95 -10136280.84 -10136280.72 0.2672 0.1060
 Mercury -32458-05-11 06:14 J -10133731.33 -10133731.24 -10133731.15 0.2677 0.1752
 Mercury -32455-11-19 08:09 J -10132443.29 -10132443.16 -10132443.03 0.2660 0.0728
 Mercury -32452-05-20 13:26 J -10131530.02 -10131529.94 -10131529.87 0.2670 0.2106
 Mercury -32448-11-11 14:52 J -10129893.91 -10129893.88 -10129893.86 0.2655 0.2584
 Mercury -32445-05-13 03:07 J -10128980.49 -10128980.37 -10128980.26 0.2675 0.0785
 Mercury -32442-11-22 07:11 J -10127692.30 -10127692.20 -10127692.11 0.2662 0.1832
 Mercury -32435-11-14 14:38 J -10125143.00 -10125142.89 -10125142.77 0.2657 0.1375
 Mercury -32432-05-15 23:59 J -10124229.62 -10124229.50 -10124229.38 0.2673 0.0222
 Mercury -32425-05-08 14:52 J -10121679.92 -10121679.88 -10121679.84 0.2678 0.2523
 Venus -32422-10-23 22:19 J -10120416.72 -10120416.57 -10120416.42 0.2643 0.1057
 Mercury -32422-11-17 14:23 J -10120392.03 -10120391.90 -10120391.77 0.2658 0.0204
 Mercury -32419-05-18 21:07 J -10119478.73 -10119478.62 -10119478.51 0.2672 0.1251
 Mercury -32412-05-11 11:31 J -10116929.12 -10116929.02 -10116928.92 0.2677 0.1575
 Mercury -32409-11-19 13:40 J -10115641.05 -10115640.93 -10115640.80 0.2660 0.0933
 Mercury -32406-05-21 18:43 J -10114727.78 -10114727.72 -10114727.66 0.2670 0.2302
 Mercury -32402-11-12 20:23 J -10113091.71 -10113091.65 -10113091.59 0.2655 0.2362
 Mercury -32399-05-14 08:09 J -10112178.28 -10112178.16 -10112178.04 0.2675 0.0602
 Mercury -32396-11-22 12:43 J -10110890.05 -10110889.97 -10110889.89 0.2662 0.2033
 Mercury -32389-11-14 20:23 J -10108340.77 -10108340.65 -10108340.53 0.2657 0.1160
 Mercury -32386-05-17 05:16 J -10107427.40 -10107427.28 -10107427.16 0.2673 0.0408
 Mercury -32379-05-09 19:55 J -10104877.72 -10104877.67 -10104877.61 0.2678 0.2355
 Mercury -32376-11-17 19:55 J -10103589.80 -10103589.67 -10103589.53 0.2659 0.0071
 Mercury -32373-05-19 02:38 J -10102676.50 -10102676.39 -10102676.29 0.2671 0.1444
 Mercury -32366-05-12 16:33 J -10100126.91 -10100126.81 -10100126.70 0.2676 0.1400
 Mercury -32363-11-20 19:11 J -10098838.82 -10098838.70 -10098838.58 0.2660 0.1138
 Mercury -32360-05-21 23:59 J -10097925.54 -10097925.50 -10097925.45 0.2670 0.2504

Mercury -32356-11-13 02:09 J -10096289.49 -10096289.41 -10096289.33 0.2655 0.2142

Mercury -32353-05-14 13:26 J -10095376.06 -10095375.94 -10095375.81 0.2675 0.0418

Mercury -32350-11-23 18:14 J -10094087.81 -10094087.74 -10094087.67 0.2662 0.2233

Mercury -32343-11-16 02:09 J -10091538.54 -10091538.41 -10091538.29 0.2657 0.0946

Mercury -32340-05-17 10:33 J -10090625.18 -10090625.06 -10090624.94 0.2673 0.0598

Mercury -32333-05-10 01:11 J -10088075.52 -10088075.45 -10088075.38 0.2678 0.2178

Mercury -32330-11-19 01:40 J -10086787.57 -10086787.43 -10086787.30 0.2659 0.0229

Mercury -32327-05-20 07:55 J -10085874.27 -10085874.17 -10085874.07 0.2671 0.1633

Mercury -32320-05-12 21:50 J -10083324.70 -10083324.59 -10083324.48 0.2676 0.1218

Mercury -32317-11-21 00:43 J -10082036.58 -10082036.47 -10082036.35 0.2661 0.1345

Mercury -32310-11-14 07:55 J -10079487.27 -10079487.17 -10079487.08 0.2656 0.1927

Mercury -32307-05-15 18:43 J -10078573.84 -10078573.72 -10078573.60 0.2674 0.0231

Mercury -32304-11-23 23:45 J -10077285.56 -10077285.51 -10077285.46 0.2663 0.2434

Mercury -32297-11-16 07:40 J -10074736.31 -10074736.18 -10074736.05 0.2657 0.0731

Mercury -32294-05-18 15:50 J -10073822.96 -10073822.84 -10073822.72 0.2673 0.0786

Mercury -32287-05-11 06:28 J -10071273.31 -10071273.23 -10071273.15 0.2678 0.2001

Venus -32284-04-22 01:26 J -10070196.51 -10070196.44 -10070196.36 0.2689 0.2330

Mercury -32284-11-19 07:11 J -10069985.33 -10069985.20 -10069985.07 0.2659 0.0429

Mercury -32281-05-20 13:11 J -10069072.04 -10069071.95 -10069071.86 0.2671 0.1833

Venus -32276-04-19 19:40 J -10067276.82 -10067276.68 -10067276.53 0.2691 0.0868

Mercury -32274-05-14 03:07 J -10066522.48 -10066522.37 -10066522.25 0.2676 0.1034

Mercury -32271-11-22 06:14 J -10065234.34 -10065234.24 -10065234.13 0.2661 0.1548

Mercury -32264-11-14 13:26 J -10062685.04 -10062684.94 -10062684.83 0.2656 0.1708

Mercury -32261-05-15 23:59 J -10061771.62 -10061771.50 -10061771.37 0.2674 0.0056

Mercury -32258-11-25 05:02 J -10060483.30 -10060483.29 -10060483.27 0.2663 0.2635

Mercury -32251-11-17 13:11 J -10057934.08 -10057933.95 -10057933.81 0.2658 0.0522

Mercury -32248-05-18 21:07 J -10057020.74 -10057020.62 -10057020.50 0.2672 0.0978

Mercury -32241-05-11 11:45 J -10054471.10 -10054471.01 -10054470.92 0.2677 0.1823

Mercury -32238-11-20 12:43 J -10053183.10 -10053182.97 -10053182.84 0.2659 0.0635

Mercury -32235-05-21 18:28 J -10052269.81 -10052269.73 -10052269.65 0.2671 0.2024

Mercury -32228-05-14 08:23 J -10049720.27 -10049720.15 -10049720.03 0.2676 0.0852
 Mercury -32225-11-22 11:45 J -10048432.10 -10048432.01 -10048431.91 0.2661 0.1757
 Mercury -32218-11-15 19:11 J -10045882.81 -10045882.70 -10045882.59 0.2656 0.1494
 Mercury -32215-05-17 05:16 J -10044969.40 -10044969.28 -10044969.15 0.2674 0.0151
 Mercury -32208-05-09 20:23 J -10042419.68 -10042419.65 -10042419.62 0.2679 0.2597
 Mercury -32205-11-17 18:57 J -10041131.85 -10041131.71 -10041131.58 0.2658 0.0308
 Mercury -32202-05-20 02:23 J -10040218.51 -10040218.40 -10040218.28 0.2672 0.1176
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 Mercury -32192-11-20 18:14 J -10036380.86 -10036380.74 -10036380.61 0.2660 0.0846
 Mercury -32189-05-21 23:59 J -10035467.57 -10035467.50 -10035467.44 0.2670 0.2225
 Mercury -32185-11-13 00:43 J -10033831.51 -10033831.47 -10033831.42 0.2655 0.2491
 Mercury -32182-05-15 13:40 J -10032918.05 -10032917.93 -10032917.81 0.2675 0.0669
 Venus -32179-10-23 20:09 J -10031660.81 -10031660.66 -10031660.51 0.2642 0.1020
 Mercury -32179-11-23 17:16 J -10031629.86 -10031629.78 -10031629.69 0.2661 0.1956
 Mercury -32172-11-16 00:43 J -10029080.58 -10029080.47 -10029080.35 0.2656 0.1276
 Mercury -32169-05-17 10:33 J -10028167.18 -10028167.06 -10028166.93 0.2674 0.0340
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 Mercury -32159-11-19 00:28 J -10024329.61 -10024329.48 -10024329.35 0.2658 0.0096
 Mercury -32156-05-20 07:55 J -10023416.28 -10023416.17 -10023416.07 0.2672 0.1368
 Mercury -32149-05-12 22:04 J -10020866.68 -10020866.58 -10020866.48 0.2677 0.1470
 Mercury -32146-11-21 23:45 J -10019578.63 -10019578.51 -10019578.38 0.2660 0.1051
 Mercury -32143-05-23 05:16 J -10018665.33 -10018665.28 -10018665.23 0.2670 0.2424
 Mercury -32139-11-14 06:28 J -10017029.30 -10017029.23 -10017029.16 0.2655 0.2268
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 Mercury -32133-11-23 22:47 J -10014827.62 -10014827.55 -10014827.47 0.2662 0.2160
 Mercury -32126-11-17 06:28 J -10012278.35 -10012278.23 -10012278.11 0.2657 0.1059
 Mercury -32123-05-18 15:50 J -10011364.96 -10011364.84 -10011364.72 0.2673 0.0523
 Mercury -32116-05-11 06:43 J -10008815.28 -10008815.22 -10008815.15 0.2678 0.2252
 Mercury -32113-11-19 05:59 J -10007527.38 -10007527.25 -10007527.11 0.2658 0.0143
 Mercury -32110-05-21 13:11 J -10006614.05 -10006613.95 -10006613.85 0.2671 0.1563

Mercury -32103-05-14 03:21 J -10004064.47 -10004064.36 -10004064.25 0.2677 0.1287

Mercury -32100-11-22 05:31 J -10002776.39 -10002776.27 -10002776.16 0.2660 0.1258

Mercury -32097-05-23 10:33 J -10001863.08 -10001863.06 -10001863.04 0.2670 0.2624

Mercury -32093-11-14 12:14 J -10000227.08 -10000226.99 -10000226.91 0.2655 0.2050

Mercury -32090-05-17 00:14 J -9999313.62 -9999313.49 -9999313.37 0.2675 0.0311

Mercury -32087-11-25 04:19 J -9998025.38 -9998025.32 -9998025.26 0.2662 0.2357

Mercury -32080-11-17 11:59 J -9995476.12 -9995476.00 -9995475.87 0.2657 0.0843

Mercury -32077-05-18 21:07 J -9994562.74 -9994562.62 -9994562.50 0.2673 0.0715

Mercury -32070-05-12 11:59 J -9992013.08 -9992013.00 -9992012.93 0.2678 0.2072

Mercury -32067-11-20 11:45 J -9990725.15 -9990725.01 -9990724.88 0.2659 0.0333

Mercury -32064-05-21 18:28 J -9989811.83 -9989811.73 -9989811.64 0.2671 0.1753

Mercury -32057-05-14 08:38 J -9987262.25 -9987262.14 -9987262.03 0.2676 0.1112

Mercury -32054-11-23 11:02 J -9985974.15 -9985974.04 -9985973.93 0.2661 0.1465

Mercury -32047-11-15 17:45 J -9983424.85 -9983424.76 -9983424.66 0.2655 0.1829

Mercury -32044-05-17 05:16 J -9982511.40 -9982511.28 -9982511.15 0.2675 0.0147

Venus -32041-04-22 05:45 J -9981440.29 -9981440.26 -9981440.23 0.2690 0.2631

Mercury -32041-11-25 09:50 J -9981223.12 -9981223.09 -9981223.05 0.2662 0.2560

Mercury -32034-11-18 17:45 J -9978673.89 -9978673.76 -9978673.63 0.2657 0.0627

Venus -32033-04-19 23:59 J -9978520.65 -9978520.50 -9978520.35 0.2692 0.0584

Mercury -32031-05-20 02:23 J -9977760.51 -9977760.40 -9977760.28 0.2673 0.0907

Mercury -32024-05-12 17:02 J -9975210.87 -9975210.79 -9975210.70 0.2678 0.1901

Mercury -32021-11-20 17:16 J -9973922.91 -9973922.78 -9973922.65 0.2659 0.0543

Mercury -32018-05-22 23:45 J -9973009.59 -9973009.51 -9973009.42 0.2671 0.1952

Mercury -32011-05-15 13:40 J -9970460.04 -9970459.93 -9970459.81 0.2676 0.0931

Mercury -32008-11-23 16:33 J -9969171.91 -9969171.81 -9969171.71 0.2661 0.1670

Mercury -32001-11-15 23:31 J -9966622.63 -9966622.52 -9966622.41 0.2656 0.1607

32ND MILLENNIUM BCE

This is a list of transits visible from Earth in the 32nd millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-31998-05-18 10:33 J	-9965709.18	-9965709.06	-9965708.93	0.2674	0.0117		
Mercury	-31991-05-11 01:55 J	-9963159.43	-9963159.42	-9963159.41	0.2679	0.2664		
Mercury	-31988-11-18 23:16 J	-9961871.66	-9961871.53	-9961871.39	0.2657	0.0415		
Mercury	-31985-05-20 07:40 J	-9960958.29	-9960958.18	-9960958.06	0.2672	0.1098		
Mercury	-31978-05-13 22:19 J	-9958408.66	-9958408.57	-9958408.47	0.2678	0.1719		
Mercury	-31975-11-21 22:47 J	-9957120.67	-9957120.55	-9957120.42	0.2659	0.0753		
Mercury	-31972-05-23 05:02 J	-9956207.36	-9956207.29	-9956207.21	0.2671	0.2148		
Mercury	-31968-11-14 05:02 J	-9954571.31	-9954571.29	-9954571.27	0.2654	0.2618		
Mercury	-31965-05-15 18:57 J	-9953657.82	-9953657.71	-9953657.59	0.2676	0.0746		
Mercury	-31962-11-24 22:04 J	-9952369.67	-9952369.58	-9952369.49	0.2661	0.1876		
Mercury	-31955-11-17 05:16 J	-9949820.40	-9949820.28	-9949820.17	0.2656	0.1390		
Mercury	-31952-05-18 15:50 J	-9948906.96	-9948906.84	-9948906.71	0.2674	0.0265		
Mercury	-31945-05-11 07:11 J	-9946357.24	-9946357.20	-9946357.16	0.2679	0.2495		
Mercury	-31942-11-20 05:02 J	-9945069.43	-9945069.29	-9945069.16	0.2658	0.0196		
Mercury	-31939-05-21 12:57 J	-9944156.07	-9944155.96	-9944155.85	0.2672	0.1292		
Venus	-31936-10-23 18:14 J	-9942904.89	-9942904.74	-9942904.59	0.2641	0.0984		
Mercury	-31932-05-14 03:35 J	-9941606.45	-9941606.35	-9941606.25	0.2677	0.1538		
Mercury	-31929-11-22 04:33 J	-9940318.44	-9940318.31	-9940318.19	0.2659	0.0966		
Mercury	-31926-05-24 10:33 J	-9939405.12	-9939405.06	-9939405.01	0.2670	0.2350		
Mercury	-31922-11-15 10:47 J	-9937769.11	-9937769.05	-9937769.00	0.2655	0.2399		
Mercury	-31919-05-17 00:14 J	-9936855.61	-9936855.49	-9936855.37	0.2675	0.0561		
Mercury	-31916-11-25 03:35 J	-9935567.43	-9935567.35	-9935567.27	0.2661	0.2078		

Mercury	-31909-11-17 10:47 J	-9933018.17	-9933018.05	-9933017.93	0.2656	0.1171
Mercury	-31906-05-19 21:07 J	-9932104.74	-9932104.62	-9932104.49	0.2674	0.0459
Mercury	-31899-05-12 12:14 J	-9929555.04	-9929554.99	-9929554.93	0.2679	0.2317
Mercury	-31896-11-20 10:33 J	-9928267.19	-9928267.06	-9928266.92	0.2658	0.0046
Mercury	-31893-05-21 18:14 J	-9927353.84	-9927353.74	-9927353.63	0.2672	0.1486
Mercury	-31886-05-15 08:52 J	-9924804.24	-9924804.13	-9924804.03	0.2677	0.1360
Mercury	-31883-11-23 10:04 J	-9923516.20	-9923516.08	-9923515.96	0.2660	0.1171
Mercury	-31880-05-24 15:50 J	-9922602.88	-9922602.84	-9922602.81	0.2670	0.2545
Mercury	-31876-11-15 16:19 J	-9920966.89	-9920966.82	-9920966.74	0.2655	0.2175
Mercury	-31873-05-17 05:31 J	-9920053.39	-9920053.27	-9920053.15	0.2675	0.0374
Mercury	-31870-11-26 09:07 J	-9918765.19	-9918765.12	-9918765.06	0.2662	0.2286
Mercury	-31863-11-18 16:33 J	-9916215.94	-9916215.81	-9916215.69	0.2656	0.0957
Mercury	-31860-05-20 02:23 J	-9915302.52	-9915302.40	-9915302.27	0.2673	0.0650
Mercury	-31853-05-12 17:31 J	-9912752.84	-9912752.77	-9912752.70	0.2678	0.2146
Mercury	-31850-11-21 16:19 J	-9911464.96	-9911464.82	-9911464.69	0.2658	0.0244
Mercury	-31847-05-22 23:45 J	-9910551.61	-9910551.51	-9910551.42	0.2672	0.1682
Mercury	-31840-05-15 13:55 J	-9908002.03	-9908001.92	-9908001.81	0.2677	0.1182
Mercury	-31837-11-23 15:35 J	-9906713.96	-9906713.85	-9906713.74	0.2660	0.1379
Mercury	-31830-11-16 22:04 J	-9904164.67	-9904164.58	-9904164.49	0.2655	0.1951
Mercury	-31827-05-18 10:47 J	-9903251.17	-9903251.05	-9903250.93	0.2675	0.0186
Mercury	-31824-11-26 14:38 J	-9901962.94	-9901962.89	-9901962.85	0.2662	0.2486
Mercury	-31817-11-18 22:04 J	-9899413.71	-9899413.58	-9899413.45	0.2657	0.0736
Mercury	-31814-05-21 07:40 J	-9898500.29	-9898500.18	-9898500.06	0.2673	0.0836
Mercury	-31807-05-13 22:47 J	-9895950.64	-9895950.55	-9895950.47	0.2678	0.1967
Mercury	-31804-11-21 21:50 J	-9894662.72	-9894662.59	-9894662.46	0.2658	0.0445
Mercury	-31801-05-23 05:02 J	-9893749.38	-9893749.29	-9893749.20	0.2671	0.1878
Mercury	-31794-05-16 19:11 J	-9891199.81	-9891199.70	-9891199.58	0.2676	0.1000
Mercury	-31791-11-24 21:07 J	-9889911.73	-9889911.62	-9889911.51	0.2660	0.1584
Venus	-31790-04-21 04:04 J	-9889764.49	-9889764.33	-9889764.18	0.2692	0.0316
Mercury	-31784-11-17 03:50 J	-9887362.44	-9887362.34	-9887362.24	0.2655	0.1726

Mercury	-31781-05-18 16:04 J	-9886448.96	-9886448.83	-9886448.71	0.2675	0.0049
Mercury	-31771-11-20 03:50 J	-9882611.47	-9882611.34	-9882611.21	0.2657	0.0516
Mercury	-31768-05-21 12:57 J	-9881698.07	-9881697.96	-9881697.84	0.2673	0.1027
Mercury	-31761-05-14 03:50 J	-9879148.43	-9879148.34	-9879148.25	0.2678	0.1792
Mercury	-31758-11-23 03:21 J	-9877860.49	-9877860.36	-9877860.23	0.2659	0.0660
Mercury	-31755-05-24 10:19 J	-9876947.15	-9876947.07	-9876946.99	0.2671	0.2078
Mercury	-31748-05-17 00:28 J	-9874397.60	-9874397.48	-9874397.36	0.2676	0.0812
Mercury	-31745-11-25 02:38 J	-9873109.49	-9873109.39	-9873109.29	0.2661	0.1792
Mercury	-31738-11-18 09:35 J	-9870560.21	-9870560.10	-9870559.99	0.2655	0.1505
Mercury	-31735-05-19 21:21 J	-9869646.74	-9869646.61	-9869646.49	0.2674	0.0192
Mercury	-31728-05-12 12:43 J	-9867097.00	-9867096.97	-9867096.94	0.2679	0.2563
Mercury	-31725-11-20 09:21 J	-9865809.24	-9865809.11	-9865808.97	0.2657	0.0308
Mercury	-31722-05-22 18:14 J	-9864895.85	-9864895.74	-9864895.63	0.2673	0.1221
Mercury	-31715-05-15 09:07 J	-9862346.22	-9862346.12	-9862346.02	0.2678	0.1610
Mercury	-31712-11-23 09:07 J	-9861058.25	-9861058.12	-9861058.00	0.2659	0.0875
Mercury	-31709-05-24 15:35 J	-9860144.91	-9860144.85	-9860144.78	0.2671	0.2274
Mercury	-31705-11-15 14:52 J	-9858508.92	-9858508.88	-9858508.84	0.2654	0.2524
Mercury	-31702-05-18 05:45 J	-9857595.38	-9857595.26	-9857595.14	0.2676	0.0636
Mercury	-31699-11-26 08:09 J	-9856307.24	-9856307.16	-9856307.07	0.2661	0.2003
Venus	-31693-10-23 16:19 J	-9854148.97	-9854148.82	-9854148.66	0.2640	0.0986
Mercury	-31692-11-18 15:07 J	-9853757.98	-9853757.87	-9853757.75	0.2656	0.1284
Mercury	-31689-05-20 02:38 J	-9852844.52	-9852844.39	-9852844.27	0.2674	0.0386
Mercury	-31682-05-13 17:45 J	-9850294.81	-9850294.76	-9850294.70	0.2679	0.2390
Mercury	-31679-11-21 15:07 J	-9849007.01	-9849006.87	-9849006.74	0.2658	0.0083
Mercury	-31676-05-22 23:45 J	-9848093.62	-9848093.51	-9848093.41	0.2672	0.1415
Mercury	-31669-05-15 14:23 J	-9845544.01	-9845543.90	-9845543.80	0.2677	0.1434
Mercury	-31666-11-24 14:38 J	-9844256.01	-9844255.89	-9844255.77	0.2659	0.1085
Mercury	-31663-05-25 21:07 J	-9843342.67	-9843342.62	-9843342.58	0.2670	0.2476
Mercury	-31659-11-16 20:38 J	-9841706.70	-9841706.64	-9841706.57	0.2654	0.2296
Mercury	-31656-05-18 11:02 J	-9840793.16	-9840793.04	-9840792.92	0.2676	0.0449

Mercury	-31653-11-26 13:40 J	-9839505.00	-9839504.93	-9839504.86	0.2661	0.2208
Mercury	-31646-11-19 20:52 J	-9836955.75	-9836955.63	-9836955.50	0.2656	0.1062
Mercury	-31643-05-21 07:55 J	-9836042.30	-9836042.17	-9836042.05	0.2674	0.0573
Mercury	-31636-05-13 23:02 J	-9833492.61	-9833492.54	-9833492.47	0.2679	0.2211
Mercury	-31633-11-21 20:38 J	-9832204.77	-9832204.64	-9832204.50	0.2658	0.0139
Mercury	-31630-05-24 05:02 J	-9831291.39	-9831291.29	-9831291.20	0.2672	0.1609
Mercury	-31623-05-16 19:26 J	-9828741.79	-9828741.69	-9828741.58	0.2677	0.1250
Mercury	-31620-11-24 20:09 J	-9827453.78	-9827453.66	-9827453.54	0.2660	0.1292
Mercury	-31613-11-17 02:23 J	-9824904.48	-9824904.40	-9824904.31	0.2655	0.2073
Mercury	-31610-05-19 16:04 J	-9823990.95	-9823990.83	-9823990.70	0.2675	0.0275
Mercury	-31607-11-27 19:11 J	-9822702.75	-9822702.70	-9822702.64	0.2661	0.2417
Mercury	-31600-11-20 02:38 J	-9820153.52	-9820153.39	-9820153.26	0.2656	0.0842
Mercury	-31597-05-21 13:11 J	-9819240.07	-9819239.95	-9819239.84	0.2674	0.0766
Mercury	-31590-05-15 04:19 J	-9816690.40	-9816690.32	-9816690.25	0.2679	0.2040
Mercury	-31587-11-23 02:23 J	-9815402.54	-9815402.40	-9815402.27	0.2658	0.0356
Mercury	-31584-05-24 10:19 J	-9814489.16	-9814489.07	-9814488.98	0.2672	0.1805
Mercury	-31577-05-17 00:43 J	-9811939.58	-9811939.47	-9811939.36	0.2677	0.1065
Mercury	-31574-11-26 01:40 J	-9810651.54	-9810651.43	-9810651.32	0.2660	0.1505
Mercury	-31567-11-18 08:09 J	-9808102.26	-9808102.16	-9808102.06	0.2655	0.1849
Mercury	-31564-05-19 21:21 J	-9807188.73	-9807188.61	-9807188.48	0.2675	0.0113
Mercury	-31561-11-28 00:43 J	-9805900.49	-9805900.47	-9805900.45	0.2662	0.2620
Mercury	-31554-11-21 08:09 J	-9803351.29	-9803351.16	-9803351.03	0.2657	0.0624
Mercury	-31551-05-22 18:28 J	-9802437.85	-9802437.73	-9802437.62	0.2673	0.0956
Venus	-31547-04-21 07:55 J	-9801008.32	-9801008.17	-9801008.01	0.2693	0.0063
Mercury	-31544-05-15 09:21 J	-9799888.19	-9799888.11	-9799888.02	0.2678	0.1857
Mercury	-31541-11-23 07:55 J	-9798600.30	-9798600.17	-9798600.04	0.2658	0.0565
Mercury	-31538-05-25 15:35 J	-9797686.93	-9797686.85	-9797686.77	0.2672	0.2004
Mercury	-31531-05-18 05:59 J	-9795137.37	-9795137.25	-9795137.14	0.2677	0.0887
Mercury	-31528-11-26 07:11 J	-9793849.30	-9793849.20	-9793849.10	0.2660	0.1717
Mercury	-31521-11-18 13:55 J	-9791300.03	-9791299.92	-9791299.82	0.2655	0.1625

Mercury	-31518-05-21 02:38 J	-9790386.51	-9790386.39	-9790386.26	0.2675	0.0126
Mercury	-31511-05-13 18:14 J	-9787836.76	-9787836.74	-9787836.72	0.2680	0.2632
Mercury	-31508-11-21 13:55 J	-9786549.06	-9786548.92	-9786548.79	0.2657	0.0410
Mercury	-31505-05-22 23:45 J	-9785635.62	-9785635.51	-9785635.40	0.2673	0.1151
Mercury	-31498-05-16 14:38 J	-9783085.99	-9783085.89	-9783085.80	0.2678	0.1682
Mercury	-31495-11-24 13:26 J	-9781798.07	-9781797.94	-9781797.81	0.2659	0.0779
Mercury	-31492-05-25 20:52 J	-9780884.70	-9780884.63	-9780884.56	0.2671	0.2205
Mercury	-31488-11-16 19:11 J	-9779248.70	-9779248.70	-9779248.69	0.2654	0.2648
Mercury	-31485-05-18 11:16 J	-9778335.15	-9778335.03	-9778334.92	0.2676	0.0705
Mercury	-31482-11-27 12:43 J	-9777047.05	-9777046.97	-9777046.87	0.2660	0.1927
Mercury	-31475-11-19 19:40 J	-9774497.80	-9774497.68	-9774497.57	0.2655	0.1400
Mercury	-31472-05-21 07:55 J	-9773584.29	-9773584.17	-9773584.05	0.2674	0.0312
Mercury	-31465-05-13 23:31 J	-9771034.57	-9771034.52	-9771034.48	0.2679	0.2459
Mercury	-31462-11-22 19:26 J	-9769746.82	-9769746.69	-9769746.55	0.2657	0.0187
Mercury	-31459-05-24 05:02 J	-9768833.40	-9768833.29	-9768833.19	0.2673	0.1343
Mercury	-31452-05-16 19:55 J	-9766283.77	-9766283.67	-9766283.57	0.2678	0.1501
Venus	-31450-10-24 14:38 J	-9765393.04	-9765392.89	-9765392.74	0.2639	0.0963
Mercury	-31449-11-24 19:11 J	-9764995.83	-9764995.70	-9764995.58	0.2659	0.0996
Mercury	-31446-05-27 02:09 J	-9764082.46	-9764082.41	-9764082.35	0.2671	0.2407
Mercury	-31442-11-18 00:57 J	-9762446.51	-9762446.46	-9762446.41	0.2654	0.2422
Mercury	-31439-05-19 16:19 J	-9761532.94	-9761532.82	-9761532.70	0.2676	0.0518
Mercury	-31436-11-27 18:28 J	-9760244.81	-9760244.73	-9760244.66	0.2661	0.2132
Mercury	-31429-11-20 01:11 J	-9757695.57	-9757695.45	-9757695.33	0.2656	0.1174
Mercury	-31426-05-22 13:11 J	-9756782.07	-9756781.95	-9756781.83	0.2674	0.0499
Mercury	-31419-05-15 04:33 J	-9754232.37	-9754232.31	-9754232.25	0.2679	0.2283
Mercury	-31416-11-23 01:11 J	-9752944.59	-9752944.45	-9752944.32	0.2657	0.0047
Mercury	-31413-05-24 10:19 J	-9752031.17	-9752031.07	-9752030.97	0.2672	0.1541
Mercury	-31406-05-18 00:57 J	-9749481.56	-9749481.46	-9749481.35	0.2678	0.1319
Mercury	-31403-11-26 00:43 J	-9748193.59	-9748193.47	-9748193.35	0.2659	0.1208
Mercury	-31400-05-27 07:40 J	-9747280.21	-9747280.18	-9747280.16	0.2671	0.2605

Mercury	-31396-11-18 06:43 J	-9745644.30	-9745644.22	-9745644.15	0.2654	0.2193
Mercury	-31393-05-19 21:35 J	-9744730.72	-9744730.60	-9744730.48	0.2676	0.0327
Mercury	-31390-11-28 23:59 J	-9743442.56	-9743442.50	-9743442.44	0.2661	0.2341
Mercury	-31383-11-21 06:57 J	-9740893.34	-9740893.21	-9740893.09	0.2656	0.0953
Mercury	-31380-05-22 18:28 J	-9739979.85	-9739979.73	-9739979.61	0.2674	0.0690
Mercury	-31373-05-15 09:50 J	-9737430.16	-9737430.09	-9737430.02	0.2679	0.2103
Mercury	-31370-11-24 06:43 J	-9736142.35	-9736142.22	-9736142.08	0.2658	0.0262
Mercury	-31367-05-25 15:35 J	-9735228.95	-9735228.85	-9735228.76	0.2672	0.1734
Mercury	-31360-05-18 06:14 J	-9732679.35	-9732679.24	-9732679.13	0.2677	0.1136
Mercury	-31357-11-26 06:14 J	-9731391.35	-9731391.24	-9731391.12	0.2659	0.1424
Mercury	-31350-11-19 12:28 J	-9728842.07	-9728841.98	-9728841.89	0.2654	0.1970
Mercury	-31347-05-21 02:52 J	-9727928.50	-9727928.38	-9727928.26	0.2676	0.0147
Mercury	-31344-11-29 05:31 J	-9726640.31	-9726640.27	-9726640.24	0.2661	0.2551
Mercury	-31337-11-21 12:28 J	-9724091.11	-9724090.98	-9724090.85	0.2656	0.0733
Mercury	-31334-05-23 23:45 J	-9723177.63	-9723177.51	-9723177.39	0.2674	0.0885
Mercury	-31327-05-16 14:52 J	-9720627.96	-9720627.88	-9720627.79	0.2679	0.1928
Mercury	-31324-11-24 12:28 J	-9719340.12	-9719339.98	-9719339.85	0.2658	0.0475
Mercury	-31321-05-25 20:52 J	-9718426.71	-9718426.63	-9718426.55	0.2672	0.1932
Mercury	-31314-05-19 11:31 J	-9715877.14	-9715877.02	-9715876.91	0.2677	0.0955
Mercury	-31311-11-27 11:59 J	-9714589.11	-9714589.00	-9714588.90	0.2660	0.1637
Venus	-31304-04-21 11:59 J	-9712252.15	-9712252.00	-9712251.84	0.2694	0.0246
Mercury	-31304-11-19 18:14 J	-9712039.85	-9712039.74	-9712039.64	0.2655	0.1741
Mercury	-31301-05-21 08:09 J	-9711126.28	-9711126.16	-9711126.04	0.2675	0.0055
Mercury	-31291-11-22 18:14 J	-9707288.87	-9707288.74	-9707288.61	0.2656	0.0508
Mercury	-31288-05-24 05:02 J	-9706375.40	-9706375.29	-9706375.18	0.2673	0.1075
Mercury	-31281-05-16 20:09 J	-9703825.75	-9703825.66	-9703825.57	0.2678	0.1745
Mercury	-31278-11-25 17:59 J	-9702537.88	-9702537.75	-9702537.62	0.2658	0.0690
Mercury	-31275-05-27 02:09 J	-9701624.48	-9701624.41	-9701624.34	0.2672	0.2131
Mercury	-31268-05-19 16:33 J	-9699074.92	-9699074.81	-9699074.69	0.2677	0.0770
Mercury	-31265-11-27 17:31 J	-9697786.87	-9697786.77	-9697786.68	0.2660	0.1846

Mercury	-31258-11-20 23:45 J	-9695237.62	-9695237.51	-9695237.40	0.2655	0.1518
Mercury	-31255-05-22 13:26 J	-9694324.07	-9694323.94	-9694323.82	0.2675	0.0246
Mercury	-31248-05-15 05:02 J	-9691774.33	-9691774.29	-9691774.25	0.2680	0.2525
Mercury	-31245-11-22 23:59 J	-9690486.64	-9690486.50	-9690486.37	0.2657	0.0289
Mercury	-31242-05-25 10:19 J	-9689573.18	-9689573.07	-9689572.96	0.2673	0.1276
Mercury	-31235-05-18 01:26 J	-9687023.54	-9687023.44	-9687023.35	0.2678	0.1570
Mercury	-31232-11-25 23:45 J	-9685735.64	-9685735.51	-9685735.39	0.2658	0.0909
Mercury	-31229-05-27 07:26 J	-9684822.25	-9684822.19	-9684822.13	0.2671	0.2332
Mercury	-31225-11-18 05:02 J	-9683186.32	-9683186.29	-9683186.25	0.2654	0.2552
Mercury	-31222-05-20 21:50 J	-9682272.71	-9682272.59	-9682272.47	0.2676	0.0581
Mercury	-31219-11-28 23:02 J	-9680984.62	-9680984.54	-9680984.46	0.2660	0.2058
Mercury	-31212-11-21 05:31 J	-9678435.39	-9678435.27	-9678435.15	0.2655	0.1289
Mercury	-31209-05-22 18:43 J	-9677521.84	-9677521.72	-9677521.60	0.2675	0.0438
Venus	-31207-10-24 13:11 J	-9676637.11	-9676636.95	-9676636.80	0.2638	0.0984
Mercury	-31202-05-16 10:04 J	-9674972.13	-9674972.08	-9674972.02	0.2680	0.2351
Mercury	-31199-11-24 05:31 J	-9673684.40	-9673684.27	-9673684.13	0.2657	0.0075
Mercury	-31196-05-25 15:35 J	-9672770.95	-9672770.85	-9672770.75	0.2673	0.1469
Mercury	-31189-05-18 06:28 J	-9670221.33	-9670221.23	-9670221.12	0.2678	0.1385
Mercury	-31186-11-27 05:16 J	-9668933.40	-9668933.28	-9668933.16	0.2659	0.1122
Mercury	-31183-05-28 12:43 J	-9668020.00	-9668019.97	-9668019.93	0.2671	0.2536
Mercury	-31179-11-19 10:47 J	-9666384.11	-9666384.05	-9666383.98	0.2654	0.2323
Mercury	-31176-05-21 03:07 J	-9665470.49	-9665470.37	-9665470.25	0.2676	0.0397
Mercury	-31173-11-29 04:33 J	-9664182.38	-9664182.31	-9664182.24	0.2661	0.2268
Mercury	-31166-11-22 11:16 J	-9661633.16	-9661633.03	-9661632.91	0.2656	0.1064
Mercury	-31163-05-23 23:59 J	-9660719.62	-9660719.50	-9660719.38	0.2674	0.0632
Mercury	-31156-05-16 15:21 J	-9658169.93	-9658169.86	-9658169.79	0.2679	0.2173
Mercury	-31153-11-24 11:16 J	-9656882.17	-9656882.03	-9656881.90	0.2657	0.0164
Mercury	-31150-05-26 20:52 J	-9655968.73	-9655968.63	-9655968.53	0.2673	0.1668
Mercury	-31143-05-19 11:45 J	-9653419.12	-9653419.01	-9653418.90	0.2678	0.1205
Mercury	-31140-11-27 10:47 J	-9652131.16	-9652131.05	-9652130.93	0.2659	0.1335

Mercury	-31133-11-19 16:33 J	-9649581.89	-9649581.81	-9649581.72	0.2654	0.2089
Mercury	-31130-05-22 08:23 J	-9648668.27	-9648668.15	-9648668.03	0.2676	0.0210
Mercury	-31127-11-30 10:04 J	-9647380.12	-9647380.08	-9647380.03	0.2661	0.2477
Mercury	-31120-11-22 17:02 J	-9644830.92	-9644830.79	-9644830.66	0.2656	0.0839
Mercury	-31117-05-24 05:02 J	-9643917.40	-9643917.29	-9643917.17	0.2674	0.0818
Mercury	-31110-05-17 20:38 J	-9641367.72	-9641367.64	-9641367.57	0.2679	0.1997
Mercury	-31107-11-25 16:47 J	-9640079.93	-9640079.80	-9640079.66	0.2657	0.0379
Mercury	-31104-05-27 02:09 J	-9639166.50	-9639166.41	-9639166.32	0.2672	0.1863
Mercury	-31097-05-19 17:02 J	-9636616.91	-9636616.79	-9636616.68	0.2677	0.1024
Mercury	-31094-11-28 16:19 J	-9635328.92	-9635328.82	-9635328.71	0.2659	0.1552
Mercury	-31087-11-20 22:19 J	-9632779.66	-9632779.57	-9632779.47	0.2654	0.1862
Mercury	-31084-05-22 13:26 J	-9631866.06	-9631865.94	-9631865.81	0.2676	0.0083
Mercury	-31074-11-23 22:33 J	-9628028.69	-9628028.56	-9628028.42	0.2656	0.0615
Mercury	-31071-05-25 10:19 J	-9627115.18	-9627115.07	-9627114.95	0.2674	0.1011
Mercury	-31064-05-18 01:40 J	-9624565.52	-9624565.43	-9624565.34	0.2679	0.1814
Venus	-31061-04-21 15:50 J	-9623495.99	-9623495.84	-9623495.69	0.2695	0.0490
Mercury	-31061-11-25 22:33 J	-9623277.69	-9623277.56	-9623277.43	0.2658	0.0599
Mercury	-31058-05-28 07:26 J	-9622364.26	-9622364.19	-9622364.11	0.2672	0.2066
Mercury	-31051-05-20 22:04 J	-9619814.69	-9619814.58	-9619814.46	0.2677	0.0837
Mercury	-31048-11-28 22:04 J	-9618526.68	-9618526.58	-9618526.48	0.2660	0.1767
Mercury	-31041-11-21 04:04 J	-9615977.44	-9615977.33	-9615977.22	0.2654	0.1629
Mercury	-31038-05-23 18:43 J	-9615063.84	-9615063.72	-9615063.59	0.2675	0.0181
Mercury	-31031-05-16 10:33 J	-9612514.08	-9612514.06	-9612514.03	0.2680	0.2591
Mercury	-31028-11-24 04:19 J	-9611226.45	-9611226.32	-9611226.19	0.2656	0.0388
Mercury	-31025-05-25 15:35 J	-9610312.96	-9610312.85	-9610312.74	0.2673	0.1203
Mercury	-31018-05-19 06:57 J	-9607763.31	-9607763.21	-9607763.12	0.2679	0.1631
Mercury	-31015-11-27 04:04 J	-9606475.46	-9606475.33	-9606475.20	0.2658	0.0818
Mercury	-31012-05-28 12:43 J	-9605562.03	-9605561.97	-9605561.90	0.2672	0.2264
Mercury	-31005-05-21 03:21 J	-9603012.48	-9603012.36	-9603012.24	0.2677	0.0648
Mercury	-31002-11-30 03:35 J	-9601724.44	-9601724.35	-9601724.26	0.2660	0.1982

31ST MILLENNIUM BCE

This is a list of transits visible from Earth in the 31st millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-30995-11-22 09:50 J		-9599175.21	-9599175.09	-9599174.97	0.2655	0.1404	
Mercury	-30992-05-23 23:59 J		-9598261.62	-9598261.50	-9598261.38	0.2675	0.0363	
Mercury	-30985-05-16 15:50 J		-9595711.89	-9595711.84	-9595711.79	0.2680	0.2415	
Mercury	-30982-11-25 10:04 J		-9594424.22	-9594424.08	-9594423.95	0.2656	0.0178	
Mercury	-30979-05-26 20:52 J		-9593510.73	-9593510.63	-9593510.52	0.2673	0.1404	
Mercury	-30972-05-19 11:59 J		-9590961.10	-9590961.00	-9590960.90	0.2678	0.1453	
Mercury	-30969-11-27 09:50 J		-9589673.22	-9589673.09	-9589672.97	0.2658	0.1039	
Mercury	-30966-05-29 17:59 J		-9588759.79	-9588759.75	-9588759.70	0.2671	0.2467	
Venus	-30964-10-24 11:31 J		-9587881.18	-9587881.02	-9587880.87	0.2637	0.0989	
Mercury	-30962-11-20 15:07 J		-9587123.92	-9587123.87	-9587123.82	0.2653	0.2447	
Mercury	-30959-05-22 08:38 J		-9586210.26	-9586210.14	-9586210.02	0.2677	0.0461	
Mercury	-30956-11-30 09:07 J		-9584922.19	-9584922.12	-9584922.04	0.2660	0.2194	
Mercury	-30949-11-22 15:35 J		-9582372.97	-9582372.85	-9582372.73	0.2655	0.1174	
Mercury	-30946-05-25 05:16 J		-9581459.40	-9581459.28	-9581459.16	0.2675	0.0558	
Mercury	-30939-05-17 20:52 J		-9578909.69	-9578909.63	-9578909.56	0.2680	0.2239	
Mercury	-30936-11-25 15:35 J		-9577621.98	-9577621.85	-9577621.71	0.2657	0.0059	
Mercury	-30933-05-27 02:09 J		-9576708.51	-9576708.41	-9576708.31	0.2673	0.1598	
Mercury	-30926-05-20 17:16 J		-9574158.89	-9574158.78	-9574158.67	0.2678	0.1268	
Mercury	-30923-11-28 15:21 J		-9572870.98	-9572870.86	-9572870.74	0.2659	0.1252	

Mercury	-30920-05-29 23:31 J	-9571957.52	-9571957.52	-9571957.52	0.2671	0.2671
Mercury	-30916-11-20 20:52 J	-9570321.71	-9570321.63	-9570321.56	0.2653	0.2215
Mercury	-30913-05-22 13:40 J	-9569408.05	-9569407.93	-9569407.80	0.2676	0.0285
Mercury	-30910-12-01 14:38 J	-9568119.94	-9568119.89	-9568119.83	0.2660	0.2407
Mercury	-30903-11-23 21:21 J	-9565570.74	-9565570.61	-9565570.49	0.2655	0.0952
Mercury	-30900-05-25 10:33 J	-9564657.18	-9564657.06	-9564656.94	0.2675	0.0749
Mercury	-30893-05-18 02:09 J	-9562107.49	-9562107.41	-9562107.34	0.2680	0.2061
Mercury	-30890-11-26 21:21 J	-9560819.75	-9560819.61	-9560819.48	0.2657	0.0288
Mercury	-30887-05-28 07:26 J	-9559906.28	-9559906.19	-9559906.09	0.2673	0.1804
Mercury	-30880-05-20 22:33 J	-9557356.67	-9557356.56	-9557356.45	0.2678	0.1088
Mercury	-30877-11-28 20:52 J	-9556068.74	-9556068.63	-9556068.52	0.2659	0.1468
Mercury	-30870-11-22 02:38 J	-9553519.48	-9553519.39	-9553519.30	0.2654	0.1980
Mercury	-30867-05-23 18:57 J	-9552605.83	-9552605.71	-9552605.59	0.2676	0.0097
Mercury	-30864-12-01 20:09 J	-9551317.67	-9551317.66	-9551317.64	0.2661	0.2620
Mercury	-30857-11-24 02:52 J	-9548768.51	-9548768.38	-9548768.25	0.2655	0.0720
Mercury	-30854-05-26 15:50 J	-9547854.96	-9547854.84	-9547854.73	0.2674	0.0945
Mercury	-30847-05-19 07:11 J	-9545305.28	-9545305.20	-9545305.11	0.2679	0.1882
Mercury	-30844-11-27 02:52 J	-9544017.51	-9544017.38	-9544017.25	0.2657	0.0500
Mercury	-30841-05-28 12:43 J	-9543104.05	-9543103.97	-9543103.89	0.2673	0.1998
Mercury	-30834-05-22 03:35 J	-9540554.46	-9540554.35	-9540554.23	0.2678	0.0902
Mercury	-30831-11-30 02:38 J	-9539266.50	-9539266.39	-9539266.29	0.2659	0.1688
Mercury	-30824-11-22 08:23 J	-9536717.25	-9536717.15	-9536717.05	0.2654	0.1750
Mercury	-30821-05-24 00:14 J	-9535803.61	-9535803.49	-9535803.37	0.2676	0.0106
Venus	-30818-04-22 19:55 J	-9534739.82	-9534739.67	-9534739.53	0.2696	0.0764
Mercury	-30814-05-17 16:19 J	-9533253.83	-9533253.82	-9533253.81	0.2681	0.2659
Mercury	-30811-11-25 08:38 J	-9531966.27	-9531966.14	-9531966.01	0.2656	0.0493
Venus	-30810-04-20 13:26 J	-9531819.99	-9531819.94	-9531819.88	0.2697	0.2512
Mercury	-30808-05-26 21:07 J	-9531052.73	-9531052.62	-9531052.51	0.2674	0.1141
Mercury	-30801-05-19 12:28 J	-9528503.07	-9528502.98	-9528502.89	0.2679	0.1702
Mercury	-30798-11-28 08:38 J	-9527215.27	-9527215.14	-9527215.01	0.2658	0.0729

Mercury	-30795-05-29 17:59 J	-9526301.81	-9526301.75	-9526301.68	0.2672	0.2203
Mercury	-30788-05-22 08:52 J	-9523752.25	-9523752.13	-9523752.01	0.2677	0.0717
Mercury	-30785-11-30 08:09 J	-9522464.25	-9522464.16	-9522464.07	0.2659	0.1901
Mercury	-30778-11-23 14:09 J	-9519915.02	-9519914.91	-9519914.80	0.2654	0.1515
Mercury	-30775-05-25 05:31 J	-9519001.39	-9519001.27	-9519001.15	0.2675	0.0300
Mercury	-30768-05-17 21:21 J	-9516451.65	-9516451.61	-9516451.56	0.2681	0.2480
Mercury	-30765-11-25 14:23 J	-9515164.04	-9515163.90	-9515163.77	0.2656	0.0273
Mercury	-30762-05-28 02:23 J	-9514250.51	-9514250.40	-9514250.30	0.2674	0.1336
Mercury	-30755-05-20 17:45 J	-9511700.86	-9511700.76	-9511700.67	0.2679	0.1522
Mercury	-30752-11-28 14:09 J	-9510413.03	-9510412.91	-9510412.78	0.2658	0.0946
Mercury	-30749-05-29 23:31 J	-9509499.58	-9509499.52	-9509499.47	0.2672	0.2402
Mercury	-30745-11-20 19:11 J	-9507863.73	-9507863.70	-9507863.67	0.2653	0.2571
Mercury	-30742-05-23 13:55 J	-9506950.03	-9506949.92	-9506949.80	0.2677	0.0538
Mercury	-30739-12-01 13:40 J	-9505662.01	-9505661.93	-9505661.85	0.2660	0.2120
Mercury	-30732-11-23 19:55 J	-9503112.79	-9503112.67	-9503112.55	0.2654	0.1290
Mercury	-30729-05-25 10:47 J	-9502199.18	-9502199.05	-9502198.93	0.2675	0.0497
Mercury	-30722-05-19 02:38 J	-9499649.45	-9499649.39	-9499649.33	0.2680	0.2305
Venus	-30721-10-24 10:04 J	-9499125.23	-9499125.08	-9499124.93	0.2636	0.1017
Mercury	-30719-11-26 19:55 J	-9498361.80	-9498361.67	-9498361.53	0.2656	0.0083
Mercury	-30716-05-28 07:40 J	-9497448.28	-9497448.18	-9497448.08	0.2673	0.1536
Mercury	-30709-05-20 22:47 J	-9494898.65	-9494898.55	-9494898.44	0.2679	0.1333
Mercury	-30706-11-29 19:55 J	-9493610.79	-9493610.67	-9493610.55	0.2658	0.1168
Mercury	-30703-05-31 04:47 J	-9492697.33	-9492697.30	-9492697.28	0.2672	0.2603
Mercury	-30699-11-22 00:57 J	-9491061.52	-9491061.46	-9491061.39	0.2653	0.2341
Mercury	-30696-05-23 19:11 J	-9490147.82	-9490147.70	-9490147.58	0.2677	0.0348
Mercury	-30693-12-01 19:11 J	-9488859.76	-9488859.70	-9488859.63	0.2660	0.2335
Mercury	-30686-11-25 01:26 J	-9486310.56	-9486310.44	-9486310.31	0.2655	0.1058
Mercury	-30683-05-26 15:50 J	-9485396.95	-9485396.84	-9485396.72	0.2675	0.0691
Mercury	-30676-05-19 07:40 J	-9482847.25	-9482847.18	-9482847.11	0.2680	0.2124
Mercury	-30673-11-27 01:40 J	-9481559.57	-9481559.43	-9481559.30	0.2656	0.0184

Mercury	-30670-05-29 12:43 J	-9480646.06	-9480645.97	-9480645.87	0.2673	0.1731
Mercury	-30663-05-22 04:04 J	-9478096.44	-9478096.33	-9478096.22	0.2678	0.1153
Mercury	-30660-11-30 01:26 J	-9476808.55	-9476808.44	-9476808.33	0.2658	0.1388
Mercury	-30653-11-22 06:43 J	-9474259.30	-9474259.22	-9474259.14	0.2653	0.2106
Mercury	-30650-05-25 00:28 J	-9473345.60	-9473345.48	-9473345.36	0.2677	0.0150
Mercury	-30647-12-03 00:57 J	-9472057.50	-9472057.46	-9472057.43	0.2660	0.2550
Mercury	-30640-11-25 07:11 J	-9469508.33	-9469508.20	-9469508.07	0.2655	0.0832
Mercury	-30637-05-26 21:07 J	-9468594.73	-9468594.62	-9468594.50	0.2675	0.0884
Mercury	-30630-05-20 12:57 J	-9466045.05	-9466044.96	-9466044.88	0.2680	0.1949
Mercury	-30627-11-28 07:26 J	-9464757.33	-9464757.19	-9464757.06	0.2657	0.0418
Mercury	-30624-05-29 18:14 J	-9463843.83	-9463843.74	-9463843.66	0.2673	0.1933
Mercury	-30617-05-22 09:07 J	-9461294.23	-9461294.12	-9461294.00	0.2678	0.0967
Mercury	-30614-12-01 06:57 J	-9460006.31	-9460006.21	-9460006.10	0.2659	0.1607
Mercury	-30607-11-23 12:28 J	-9457457.07	-9457456.98	-9457456.88	0.2654	0.1872
Mercury	-30604-05-25 05:45 J	-9456543.38	-9456543.26	-9456543.14	0.2676	0.0045
Mercury	-30594-11-26 12:57 J	-9452706.09	-9452705.96	-9452705.83	0.2655	0.0602
Mercury	-30591-05-28 02:23 J	-9451792.51	-9451792.40	-9451792.28	0.2675	0.1076
Mercury	-30584-05-20 17:59 J	-9449242.84	-9449242.75	-9449242.66	0.2680	0.1766
Mercury	-30581-11-28 12:57 J	-9447955.09	-9447954.96	-9447954.83	0.2657	0.0630
Mercury	-30578-05-30 23:31 J	-9447041.60	-9447041.52	-9447041.45	0.2673	0.2133
Venus	-30575-04-22 23:31 J	-9445983.67	-9445983.52	-9445983.38	0.2696	0.1005
Mercury	-30571-05-23 14:23 J	-9444492.02	-9444491.90	-9444491.78	0.2678	0.0780
Mercury	-30568-12-01 12:43 J	-9443204.07	-9443203.97	-9443203.88	0.2659	0.1825
Venus	-30567-04-20 17:02 J	-9443063.87	-9443063.79	-9443063.71	0.2698	0.2278
Mercury	-30561-11-23 18:14 J	-9440654.85	-9440654.74	-9440654.63	0.2654	0.1638
Mercury	-30558-05-26 11:02 J	-9439741.17	-9439741.04	-9439740.92	0.2676	0.0252
Mercury	-30551-05-19 03:07 J	-9437191.41	-9437191.37	-9437191.34	0.2681	0.2551
Mercury	-30548-11-26 18:43 J	-9435903.86	-9435903.72	-9435903.59	0.2656	0.0377
Mercury	-30545-05-28 07:40 J	-9434990.29	-9434990.18	-9434990.07	0.2674	0.1272
Mercury	-30538-05-21 23:16 J	-9432440.63	-9432440.53	-9432440.44	0.2679	0.1585

Mercury	-30535-11-29 18:43 J	-9431152.85	-9431152.72	-9431152.60	0.2657	0.0860
Mercury	-30532-05-31 04:47 J	-9430239.36	-9430239.30	-9430239.24	0.2672	0.2337
Mercury	-30525-05-23 19:40 J	-9427689.80	-9427689.68	-9427689.56	0.2678	0.0595
Mercury	-30522-12-02 18:14 J	-9426401.82	-9426401.74	-9426401.66	0.2659	0.2039
Mercury	-30515-11-24 23:59 J	-9423852.61	-9423852.50	-9423852.38	0.2654	0.1403
Mercury	-30512-05-26 16:04 J	-9422938.95	-9422938.83	-9422938.70	0.2676	0.0434
Mercury	-30505-05-19 08:09 J	-9420389.21	-9420389.16	-9420389.11	0.2681	0.2369
Mercury	-30502-11-28 00:14 J	-9419101.62	-9419101.49	-9419101.35	0.2656	0.0159
Mercury	-30499-05-29 12:57 J	-9418188.06	-9418187.96	-9418187.86	0.2674	0.1467
Mercury	-30492-05-22 04:19 J	-9415638.42	-9415638.32	-9415638.22	0.2679	0.1402
Mercury	-30489-11-30 00:14 J	-9414350.61	-9414350.49	-9414350.37	0.2658	0.1078
Mercury	-30486-06-01 10:04 J	-9413437.12	-9413437.08	-9413437.05	0.2672	0.2535
Mercury	-30482-11-23 05:02 J	-9411801.33	-9411801.29	-9411801.24	0.2652	0.2467
Mercury	-30479-05-25 00:43 J	-9410887.59	-9410887.47	-9410887.35	0.2677	0.0409
Venus	-30478-10-25 08:38 J	-9410369.29	-9410369.14	-9410368.99	0.2636	0.1031
Mercury	-30476-12-02 23:45 J	-9409599.58	-9409599.51	-9409599.44	0.2660	0.2261
Mercury	-30469-11-25 05:45 J	-9407050.38	-9407050.26	-9407050.14	0.2654	0.1171
Mercury	-30466-05-27 21:21 J	-9406136.73	-9406136.61	-9406136.49	0.2675	0.0620
Mercury	-30459-05-20 13:26 J	-9403587.01	-9403586.94	-9403586.88	0.2681	0.2195
Mercury	-30456-11-28 05:59 J	-9402299.38	-9402299.25	-9402299.11	0.2656	0.0094
Mercury	-30453-05-29 18:14 J	-9401385.84	-9401385.74	-9401385.64	0.2674	0.1666
Mercury	-30446-05-23 09:35 J	-9398836.21	-9398836.10	-9398836.00	0.2679	0.1218
Mercury	-30443-12-01 05:59 J	-9397548.37	-9397548.25	-9397548.14	0.2658	0.1306
Mercury	-30436-11-23 11:02 J	-9394999.12	-9394999.04	-9394998.97	0.2653	0.2230
Mercury	-30433-05-25 05:59 J	-9394085.37	-9394085.25	-9394085.13	0.2677	0.0215
Mercury	-30430-12-04 05:16 J	-9392797.32	-9392797.28	-9392797.23	0.2660	0.2477
Mercury	-30423-11-26 11:31 J	-9390248.15	-9390248.02	-9390247.89	0.2654	0.0937
Mercury	-30420-05-28 02:38 J	-9389334.51	-9389334.39	-9389334.27	0.2675	0.0812
Mercury	-30413-05-20 18:28 J	-9386784.81	-9386784.73	-9386784.65	0.2680	0.2008
Mercury	-30410-11-29 11:45 J	-9385497.15	-9385497.01	-9385496.88	0.2656	0.0317

Mercury	-30407-05-30 23:31 J	-9384583.61	-9384583.52	-9384583.43	0.2673	0.1864
Mercury	-30400-05-23 14:38 J	-9382034.00	-9382033.89	-9382033.77	0.2679	0.1036
Mercury	-30397-12-01 11:31 J	-9380746.13	-9380746.02	-9380745.91	0.2658	0.1522
Mercury	-30390-11-24 16:47 J	-9378196.89	-9378196.80	-9378196.71	0.2653	0.1993
Mercury	-30387-05-26 11:16 J	-9377283.16	-9377283.03	-9377282.91	0.2677	0.0095
Mercury	-30377-11-26 17:16 J	-9373445.91	-9373445.78	-9373445.65	0.2655	0.0706
Mercury	-30374-05-29 07:55 J	-9372532.29	-9372532.17	-9372532.06	0.2675	0.1009
Mercury	-30367-05-21 23:45 J	-9369982.60	-9369982.51	-9369982.43	0.2680	0.1833
Mercury	-30364-11-29 17:16 J	-9368694.91	-9368694.78	-9368694.64	0.2657	0.0546
Mercury	-30361-05-31 04:47 J	-9367781.38	-9367781.30	-9367781.22	0.2673	0.2066
Mercury	-30354-05-24 19:55 J	-9365231.78	-9365231.67	-9365231.55	0.2678	0.0841
Mercury	-30351-12-02 17:02 J	-9363943.89	-9363943.79	-9363943.69	0.2658	0.1745
Mercury	-30344-11-24 22:33 J	-9361394.67	-9361394.56	-9361394.46	0.2653	0.1760
Mercury	-30341-05-26 16:19 J	-9360480.94	-9360480.82	-9360480.69	0.2676	0.0193
Mercury	-30334-05-20 08:38 J	-9357931.16	-9357931.14	-9357931.11	0.2682	0.2612
Venus	-30332-04-23 03:07 J	-9357227.50	-9357227.37	-9357227.23	0.2697	0.1254
Mercury	-30331-11-27 23:02 J	-9356643.68	-9356643.54	-9356643.41	0.2655	0.0482
Mercury	-30328-05-29 13:11 J	-9355730.06	-9355729.95	-9355729.84	0.2675	0.1208
Venus	-30324-04-20 20:38 J	-9354307.74	-9354307.64	-9354307.54	0.2698	0.2032
Mercury	-30321-05-22 04:47 J	-9353180.39	-9353180.30	-9353180.20	0.2680	0.1645
Mercury	-30318-11-30 23:02 J	-9351892.67	-9351892.54	-9351892.41	0.2657	0.0765
Mercury	-30315-06-01 10:04 J	-9350979.15	-9350979.08	-9350979.02	0.2673	0.2266
Mercury	-30308-05-25 01:11 J	-9348429.57	-9348429.45	-9348429.34	0.2678	0.0661
Mercury	-30305-12-02 22:47 J	-9347141.64	-9347141.55	-9347141.46	0.2659	0.1967
Mercury	-30298-11-26 04:04 J	-9344592.44	-9344592.33	-9344592.21	0.2654	0.1525
Mercury	-30295-05-27 21:35 J	-9343678.72	-9343678.60	-9343678.48	0.2676	0.0362
Mercury	-30288-05-20 13:55 J	-9341128.97	-9341128.92	-9341128.88	0.2681	0.2436
Mercury	-30285-11-28 04:33 J	-9339841.44	-9339841.31	-9339841.17	0.2655	0.0253
Mercury	-30282-05-30 18:28 J	-9338927.84	-9338927.73	-9338927.63	0.2674	0.1407
Mercury	-30275-05-23 10:04 J	-9336378.18	-9336378.08	-9336377.98	0.2680	0.1469

Mercury	-30272-12-01 04:33 J	-9335090.43	-9335090.31	-9335090.18	0.2657	0.0994
Mercury	-30269-06-01 15:21 J	-9334176.90	-9334176.86	-9334176.82	0.2673	0.2473
Mercury	-30265-11-23 09:21 J	-9332541.14	-9332541.11	-9332541.09	0.2652	0.2595
Mercury	-30262-05-26 06:14 J	-9331627.36	-9331627.24	-9331627.12	0.2678	0.0470
Mercury	-30259-12-04 04:19 J	-9330339.39	-9330339.32	-9330339.24	0.2659	0.2185
Mercury	-30252-11-26 10:04 J	-9327790.20	-9327790.08	-9327789.96	0.2654	0.1287
Mercury	-30249-05-28 02:52 J	-9326876.50	-9326876.38	-9326876.26	0.2676	0.0554
Mercury	-30242-05-21 18:57 J	-9324326.77	-9324326.71	-9324326.65	0.2681	0.2253
Mercury	-30239-11-29 10:19 J	-9323039.21	-9323039.07	-9323038.93	0.2656	0.0029
Mercury	-30236-05-30 23:31 J	-9322125.61	-9322125.52	-9322125.42	0.2674	0.1604
Venus	-30235-10-25 07:26 J	-9321613.34	-9321613.19	-9321613.04	0.2635	0.1083
Mercury	-30229-05-23 15:07 J	-9319575.97	-9319575.87	-9319575.76	0.2679	0.1280
Mercury	-30226-12-02 10:19 J	-9318288.19	-9318288.07	-9318287.95	0.2657	0.1212
Mercury	-30219-11-24 15:07 J	-9315738.93	-9315738.87	-9315738.81	0.2652	0.2355
Mercury	-30216-05-26 11:31 J	-9314825.14	-9314825.02	-9314824.90	0.2677	0.0283
Mercury	-30213-12-04 09:50 J	-9313537.14	-9313537.09	-9313537.03	0.2659	0.2406
Mercury	-30206-11-27 15:50 J	-9310987.97	-9310987.84	-9310987.72	0.2654	0.1052
Mercury	-30203-05-29 08:09 J	-9310074.28	-9310074.16	-9310074.05	0.2676	0.0754
Mercury	-30196-05-21 23:59 J	-9307524.57	-9307524.50	-9307524.42	0.2681	0.2080
Mercury	-30193-11-29 16:04 J	-9306236.97	-9306236.83	-9306236.70	0.2656	0.0222
Mercury	-30190-06-01 04:47 J	-9305323.39	-9305323.30	-9305323.21	0.2674	0.1805
Mercury	-30183-05-24 20:23 J	-9302773.76	-9302773.65	-9302773.54	0.2679	0.1097
Mercury	-30180-12-02 15:50 J	-9301485.95	-9301485.84	-9301485.72	0.2658	0.1441
Mercury	-30173-11-24 20:52 J	-9298936.71	-9298936.63	-9298936.55	0.2653	0.2115
Mercury	-30170-05-27 16:47 J	-9298022.93	-9298022.80	-9298022.68	0.2677	0.0127
Mercury	-30167-12-05 15:35 J	-9296734.87	-9296734.85	-9296734.84	0.2660	0.2621
Mercury	-30160-11-27 21:21 J	-9294185.74	-9294185.61	-9294185.47	0.2654	0.0818
Mercury	-30157-05-29 13:11 J	-9293272.06	-9293271.95	-9293271.83	0.2675	0.0948
Mercury	-30150-05-23 05:16 J	-9290722.36	-9290722.28	-9290722.20	0.2681	0.1891
Mercury	-30147-11-30 21:35 J	-9289434.73	-9289434.60	-9289434.46	0.2656	0.0453

Mercury	-30144-06-01 10:04 J	-9288521.16	-9288521.08	-9288521.00	0.2674	0.2002
Mercury	-30137-05-25 01:26 J	-9285971.55	-9285971.44	-9285971.33	0.2679	0.0911
Mercury	-30134-12-03 21:35 J	-9284683.70	-9284683.60	-9284683.50	0.2658	0.1664
Mercury	-30127-11-26 02:38 J	-9282134.49	-9282134.39	-9282134.29	0.2653	0.1876
Mercury	-30124-05-27 21:50 J	-9281220.71	-9281220.59	-9281220.47	0.2677	0.0104
Mercury	-30117-05-20 14:23 J	-9278670.90	-9278670.90	-9278670.89	0.2682	0.2673
Mercury	-30114-11-29 03:07 J	-9277383.50	-9277383.37	-9277383.23	0.2655	0.0584
Mercury	-30111-05-30 18:28 J	-9276469.84	-9276469.73	-9276469.62	0.2675	0.1145
Mercury	-30104-05-23 10:19 J	-9273920.16	-9273920.07	-9273919.97	0.2680	0.1715
Mercury	-30101-12-01 03:21 J	-9272632.49	-9272632.36	-9272632.23	0.2656	0.0674
Mercury	-30098-06-02 15:21 J	-9271718.93	-9271718.86	-9271718.79	0.2673	0.2205
Mercury	-30091-05-26 06:43 J	-9269169.34	-9269169.22	-9269169.11	0.2679	0.0723
Venus	-30089-04-23 06:43 J	-9268471.35	-9268471.22	-9268471.10	0.2698	0.1481
Mercury	-30088-12-04 03:07 J	-9267881.46	-9267881.37	-9267881.27	0.2658	0.1890
Venus	-30081-04-20 23:59 J	-9265551.61	-9265551.50	-9265551.38	0.2699	0.1823
Mercury	-30081-11-26 08:23 J	-9265332.26	-9265332.15	-9265332.04	0.2653	0.1637
Mercury	-30078-05-29 03:07 J	-9264418.49	-9264418.37	-9264418.25	0.2677	0.0296
Mercury	-30071-05-21 19:26 J	-9261868.73	-9261868.69	-9261868.65	0.2682	0.2497
Mercury	-30068-11-29 08:52 J	-9260581.27	-9260581.13	-9260580.99	0.2655	0.0348
Mercury	-30065-05-30 23:45 J	-9259667.62	-9259667.51	-9259667.40	0.2675	0.1337
Mercury	-30058-05-24 15:35 J	-9257117.95	-9257117.85	-9257117.75	0.2680	0.1525
Mercury	-30055-12-02 09:07 J	-9255830.25	-9255830.12	-9255830.00	0.2657	0.0904
Mercury	-30052-06-02 20:38 J	-9254916.69	-9254916.64	-9254916.59	0.2673	0.2408
Mercury	-30045-05-26 11:45 J	-9252367.13	-9252367.01	-9252366.89	0.2678	0.0537
Mercury	-30042-12-05 08:52 J	-9251079.21	-9251079.13	-9251079.05	0.2659	0.2109
Mercury	-30035-11-27 14:09 J	-9248530.03	-9248529.91	-9248529.79	0.2653	0.1400
Mercury	-30032-05-29 08:23 J	-9247616.27	-9247616.15	-9247616.03	0.2677	0.0496
Mercury	-30025-05-22 00:43 J	-9245066.53	-9245066.47	-9245066.42	0.2681	0.2320
Mercury	-30022-11-30 14:38 J	-9243779.03	-9243778.89	-9243778.75	0.2655	0.0115
Mercury	-30019-06-01 05:02 J	-9242865.39	-9242865.29	-9242865.19	0.2675	0.1539

Mercury	-30012-05-24 20:38 J	-9240315.74	-9240315.64	-9240315.53	0.2680	0.1345
Mercury	-30009-12-02 14:38 J	-9239028.01	-9239027.89	-9239027.76	0.2657	0.1132
Mercury	-30006-06-04 01:55 J	-9238114.44	-9238114.42	-9238114.40	0.2673	0.2611
Mercury	-30002-11-25 19:11 J	-9236478.75	-9236478.70	-9236478.66	0.2652	0.2485

30TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 30th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-29999-05-27 17:02 J	-9235564.91	-9235564.79	-9235564.67	0.2678	0.0339		
Mercury	-29996-12-05 14:23 J	-9234276.96	-9234276.90	-9234276.84	0.2659	0.2331		
Venus	-29992-10-25 06:14 J	-9232857.39	-9232857.24	-9232857.09	0.2634	0.1107		
Mercury	-29989-11-27 19:55 J	-9231727.80	-9231727.67	-9231727.55	0.2654	0.1166		
Mercury	-29986-05-30 13:40 J	-9230814.05	-9230813.93	-9230813.82	0.2676	0.0693		
Venus	-29984-10-22 18:57 J	-9229937.72	-9229937.71	-9229937.70	0.2633	0.2624		
Mercury	-29979-05-23 05:45 J	-9228264.33	-9228264.26	-9228264.19	0.2681	0.2137		
Mercury	-29976-11-30 20:23 J	-9226976.79	-9226976.65	-9226976.52	0.2655	0.0139		
Mercury	-29973-06-01 10:19 J	-9226063.16	-9226063.07	-9226062.98	0.2674	0.1740		
Mercury	-29966-05-26 01:55 J	-9223513.53	-9223513.42	-9223513.31	0.2679	0.1158		
Mercury	-29963-12-03 20:23 J	-9222225.77	-9222225.65	-9222225.54	0.2657	0.1356		
Mercury	-29956-11-26 00:57 J	-9219676.53	-9219676.46	-9219676.39	0.2652	0.2243		
Mercury	-29953-05-27 22:19 J	-9218762.70	-9218762.57	-9218762.45	0.2678	0.0177		
Mercury	-29950-12-06 20:09 J	-9217474.70	-9217474.66	-9217474.63	0.2659	0.2556		
Mercury	-29943-11-29 01:40 J	-9214925.56	-9214925.43	-9214925.30	0.2654	0.0929		

Mercury	-29940-05-30 18:43 J	-9214011.83	-9214011.72	-9214011.60	0.2676	0.0888
Mercury	-29933-05-23 10:47 J	-9211462.13	-9211462.05	-9211461.97	0.2681	0.1960
Mercury	-29930-12-02 01:55 J	-9210174.55	-9210174.42	-9210174.28	0.2656	0.0351
Mercury	-29927-06-02 15:35 J	-9209260.94	-9209260.85	-9209260.77	0.2674	0.1942
Mercury	-29920-05-26 06:57 J	-9206711.32	-9206711.21	-9206711.09	0.2679	0.0975
Mercury	-29917-12-04 01:55 J	-9205423.53	-9205423.42	-9205423.31	0.2657	0.1582
Mercury	-29910-11-27 06:43 J	-9202874.31	-9202874.22	-9202874.13	0.2652	0.1997
Mercury	-29907-05-29 03:21 J	-9201960.48	-9201960.36	-9201960.24	0.2677	0.0082
Mercury	-29897-11-29 07:26 J	-9198123.32	-9198123.19	-9198123.06	0.2654	0.0691
Mercury	-29894-05-31 23:59 J	-9197209.61	-9197209.50	-9197209.39	0.2676	0.1078
Mercury	-29887-05-24 16:04 J	-9194659.92	-9194659.83	-9194659.74	0.2681	0.1775
Mercury	-29884-12-02 07:40 J	-9193372.31	-9193372.18	-9193372.05	0.2656	0.0580
Mercury	-29881-06-02 20:52 J	-9192458.71	-9192458.63	-9192458.56	0.2674	0.2146
Mercury	-29874-05-27 12:14 J	-9189909.11	-9189908.99	-9189908.88	0.2679	0.0784
Mercury	-29871-12-05 07:40 J	-9188621.28	-9188621.18	-9188621.09	0.2658	0.1806
Mercury	-29864-11-27 12:28 J	-9186072.08	-9186071.98	-9186071.88	0.2652	0.1758
Mercury	-29861-05-29 08:38 J	-9185158.26	-9185158.14	-9185158.02	0.2677	0.0234
Mercury	-29854-05-23 01:11 J	-9182608.48	-9182608.45	-9182608.42	0.2682	0.2561
Mercury	-29851-11-30 13:11 J	-9181321.09	-9181320.95	-9181320.82	0.2654	0.0451
Mercury	-29848-06-01 05:16 J	-9180407.39	-9180407.28	-9180407.18	0.2675	0.1280
Venus	-29846-04-24 10:19 J	-9179715.19	-9179715.07	-9179714.96	0.2699	0.1728
Mercury	-29841-05-24 21:07 J	-9177857.71	-9177857.62	-9177857.52	0.2681	0.1593
Venus	-29838-04-22 03:35 J	-9176795.48	-9176795.35	-9176795.23	0.2700	0.1586
Mercury	-29838-12-03 13:26 J	-9176570.07	-9176569.94	-9176569.81	0.2656	0.0813
Mercury	-29835-06-04 02:09 J	-9175656.47	-9175656.41	-9175656.36	0.2673	0.2348
Mercury	-29828-05-27 17:31 J	-9173106.89	-9173106.77	-9173106.66	0.2679	0.0600
Mercury	-29825-12-05 13:11 J	-9171819.03	-9171818.95	-9171818.86	0.2658	0.2034
Mercury	-29818-11-28 18:14 J	-9169269.85	-9169269.74	-9169269.62	0.2653	0.1516
Mercury	-29815-05-30 13:55 J	-9168356.04	-9168355.92	-9168355.80	0.2677	0.0436
Mercury	-29808-05-23 06:14 J	-9165806.29	-9165806.24	-9165806.18	0.2682	0.2382

Mercury	-29805-11-30 18:57 J	-9164518.85	-9164518.71	-9164518.58	0.2655	0.0225
Mercury	-29802-06-02 10:33 J	-9163605.17	-9163605.06	-9163604.96	0.2675	0.1479
Mercury	-29795-05-26 02:23 J	-9161055.50	-9161055.40	-9161055.30	0.2680	0.1403
Mercury	-29792-12-03 18:57 J	-9159767.83	-9159767.71	-9159767.58	0.2656	0.1048
Mercury	-29789-06-04 07:11 J	-9158854.23	-9158854.20	-9158854.16	0.2673	0.2552
Mercury	-29785-11-25 23:02 J	-9157218.55	-9157218.54	-9157218.52	0.2651	0.2615
Mercury	-29782-05-28 22:33 J	-9156304.68	-9156304.56	-9156304.44	0.2679	0.0406
Mercury	-29779-12-06 18:57 J	-9155016.78	-9155016.71	-9155016.64	0.2658	0.2260
Mercury	-29772-11-28 23:59 J	-9152467.62	-9152467.50	-9152467.38	0.2653	0.1277
Mercury	-29769-05-30 18:57 J	-9151553.83	-9151553.71	-9151553.59	0.2677	0.0627
Mercury	-29762-05-24 11:31 J	-9149004.09	-9149004.02	-9149003.96	0.2682	0.2201
Mercury	-29759-12-02 00:28 J	-9147716.61	-9147716.48	-9147716.34	0.2655	0.0085
Mercury	-29756-06-02 15:35 J	-9146802.94	-9146802.85	-9146802.75	0.2675	0.1682
Mercury	-29749-05-26 07:26 J	-9144253.29	-9144253.19	-9144253.08	0.2680	0.1221
Venus	-29749-10-25 05:16 J	-9144101.43	-9144101.28	-9144101.13	0.2633	0.1183
Mercury	-29746-12-05 00:43 J	-9142965.59	-9142965.47	-9142965.35	0.2657	0.1272
Venus	-29741-10-22 17:59 J	-9141181.78	-9141181.75	-9141181.71	0.2632	0.2554
Mercury	-29739-11-27 05:02 J	-9140416.35	-9140416.29	-9140416.23	0.2652	0.2366
Mercury	-29736-05-29 03:50 J	-9139502.46	-9139502.34	-9139502.22	0.2678	0.0211
Mercury	-29733-12-07 00:28 J	-9138214.52	-9138214.48	-9138214.43	0.2659	0.2485
Mercury	-29726-11-30 05:45 J	-9135665.38	-9135665.26	-9135665.13	0.2653	0.1039
Mercury	-29723-06-01 00:14 J	-9134751.61	-9134751.49	-9134751.37	0.2676	0.0821
Mercury	-29716-05-24 16:33 J	-9132201.89	-9132201.81	-9132201.73	0.2681	0.2018
Mercury	-29713-12-02 06:14 J	-9130914.37	-9130914.24	-9130914.10	0.2655	0.0255
Mercury	-29710-06-03 20:52 J	-9130000.71	-9130000.63	-9130000.54	0.2675	0.1877
Mercury	-29703-05-27 12:43 J	-9127451.08	-9127450.97	-9127450.86	0.2680	0.1030
Mercury	-29700-12-05 06:28 J	-9126163.35	-9126163.23	-9126163.12	0.2657	0.1503
Mercury	-29693-11-27 10:47 J	-9123614.13	-9123614.05	-9123613.97	0.2652	0.2126
Mercury	-29690-05-30 08:52 J	-9122700.25	-9122700.13	-9122700.01	0.2678	0.0073
Mercury	-29680-11-30 11:31 J	-9118863.15	-9118863.02	-9118862.89	0.2654	0.0799

Mercury	-29677-06-01 05:31 J	-9117949.38	-9117949.27	-9117949.16	0.2676	0.1021
Mercury	-29670-05-25 21:35 J	-9115399.68	-9115399.60	-9115399.51	0.2681	0.1839
Mercury	-29667-12-03 11:59 J	-9114112.13	-9114112.00	-9114111.87	0.2655	0.0488
Mercury	-29664-06-04 02:09 J	-9113198.48	-9113198.41	-9113198.33	0.2674	0.2085
Mercury	-29657-05-27 17:45 J	-9110648.87	-9110648.76	-9110648.64	0.2679	0.0846
Mercury	-29654-12-06 11:59 J	-9109361.10	-9109361.00	-9109360.90	0.2657	0.1730
Mercury	-29647-11-28 16:33 J	-9106811.91	-9106811.81	-9106811.71	0.2652	0.1878
Mercury	-29644-05-30 14:09 J	-9105898.03	-9105897.91	-9105897.79	0.2678	0.0177
Mercury	-29637-05-23 06:57 J	-9103348.23	-9103348.21	-9103348.19	0.2683	0.2625
Mercury	-29634-12-01 17:16 J	-9102060.91	-9102060.78	-9102060.64	0.2654	0.0561
Mercury	-29631-06-02 10:47 J	-9101147.16	-9101147.05	-9101146.95	0.2676	0.1221
Mercury	-29624-05-26 02:52 J	-9098597.47	-9098597.38	-9098597.29	0.2681	0.1650
Mercury	-29621-12-03 17:45 J	-9097309.89	-9097309.76	-9097309.63	0.2656	0.0722
Mercury	-29618-06-05 07:26 J	-9096396.25	-9096396.19	-9096396.13	0.2674	0.2286
Mercury	-29611-05-28 23:02 J	-9093846.66	-9093846.54	-9093846.42	0.2679	0.0655
Mercury	-29608-12-06 17:45 J	-9092558.85	-9092558.76	-9092558.67	0.2658	0.1958
Venus	-29603-04-24 13:26 J	-9090959.04	-9090958.94	-9090958.83	0.2700	0.1942
Mercury	-29601-11-28 22:19 J	-9090009.68	-9090009.57	-9090009.46	0.2652	0.1637
Mercury	-29598-05-31 19:26 J	-9089095.81	-9089095.69	-9089095.57	0.2677	0.0378
Venus	-29595-04-22 06:57 J	-9088039.35	-9088039.21	-9088039.08	0.2701	0.1370
Mercury	-29591-05-24 11:59 J	-9086546.05	-9086546.00	-9086545.95	0.2682	0.2444
Mercury	-29588-12-01 23:02 J	-9085258.68	-9085258.54	-9085258.40	0.2654	0.0320
Mercury	-29585-06-02 15:50 J	-9084344.94	-9084344.84	-9084344.73	0.2676	0.1424
Mercury	-29578-05-27 07:55 J	-9081795.27	-9081795.17	-9081795.07	0.2681	0.1469
Mercury	-29575-12-04 23:16 J	-9080507.65	-9080507.53	-9080507.40	0.2656	0.0955
Mercury	-29572-06-05 12:43 J	-9079594.01	-9079593.97	-9079593.93	0.2674	0.2492
Mercury	-29565-05-29 04:04 J	-9077044.45	-9077044.33	-9077044.21	0.2679	0.0470
Mercury	-29562-12-07 23:16 J	-9075756.60	-9075756.53	-9075756.45	0.2658	0.2185
Mercury	-29555-11-30 04:19 J	-9073207.44	-9073207.32	-9073207.21	0.2653	0.1389
Mercury	-29552-06-01 00:28 J	-9072293.60	-9072293.48	-9072293.36	0.2677	0.0571

Mercury	-29545-05-24 17:02 J	-9069743.85	-9069743.79	-9069743.72	0.2682	0.2263
Mercury	-29542-12-03 04:47 J	-9068456.44	-9068456.30	-9068456.16	0.2654	0.0083
Mercury	-29539-06-03 21:07 J	-9067542.72	-9067542.62	-9067542.52	0.2675	0.1616
Mercury	-29532-05-27 13:11 J	-9064993.06	-9064992.95	-9064992.85	0.2680	0.1281
Mercury	-29529-12-05 05:02 J	-9063705.41	-9063705.29	-9063705.17	0.2656	0.1188
Mercury	-29522-11-28 09:07 J	-9061156.17	-9061156.12	-9061156.08	0.2651	0.2494
Mercury	-29519-05-30 09:21 J	-9060242.23	-9060242.11	-9060241.99	0.2679	0.0276
Mercury	-29516-12-08 05:02 J	-9058954.35	-9058954.29	-9058954.24	0.2658	0.2412
Mercury	-29509-11-30 10:04 J	-9056405.21	-9056405.08	-9056404.96	0.2653	0.1150
Mercury	-29506-06-02 05:45 J	-9055491.38	-9055491.26	-9055491.14	0.2677	0.0760
Venus	-29506-10-26 04:19 J	-9055345.46	-9055345.32	-9055345.17	0.2632	0.1247
Mercury	-29499-05-25 22:19 J	-9052941.65	-9052941.57	-9052941.50	0.2682	0.2079
Venus	-29498-10-23 17:31 J	-9052425.83	-9052425.77	-9052425.71	0.2631	0.2443
Mercury	-29496-12-03 10:33 J	-9051654.20	-9051654.06	-9051653.92	0.2655	0.0161
Mercury	-29493-06-04 02:23 J	-9050740.49	-9050740.40	-9050740.31	0.2675	0.1823
Mercury	-29486-05-28 18:14 J	-9048190.85	-9048190.74	-9048190.63	0.2680	0.1092
Mercury	-29483-12-06 10:47 J	-9046903.16	-9046903.05	-9046902.94	0.2656	0.1420
Mercury	-29476-11-28 14:52 J	-9044353.95	-9044353.88	-9044353.81	0.2651	0.2246
Mercury	-29473-05-30 14:38 J	-9043440.02	-9043439.89	-9043439.77	0.2678	0.0131
Mercury	-29470-12-09 10:33 J	-9042152.07	-9042152.06	-9042152.05	0.2658	0.2640
Mercury	-29463-12-01 15:50 J	-9039602.97	-9039602.84	-9039602.71	0.2653	0.0907
Mercury	-29460-06-02 11:02 J	-9038689.16	-9038689.04	-9038688.93	0.2676	0.0961
Mercury	-29453-05-26 03:21 J	-9036139.44	-9036139.36	-9036139.27	0.2682	0.1894
Mercury	-29450-12-04 16:19 J	-9034851.96	-9034851.82	-9034851.69	0.2655	0.0395
Mercury	-29447-06-05 07:40 J	-9033938.26	-9033938.18	-9033938.10	0.2675	0.2021
Mercury	-29440-05-28 23:31 J	-9031388.64	-9031388.52	-9031388.41	0.2680	0.0904
Mercury	-29437-12-06 16:33 J	-9030100.92	-9030100.81	-9030100.71	0.2657	0.1655
Mercury	-29430-11-29 20:38 J	-9027551.73	-9027551.64	-9027551.55	0.2651	0.2002
Mercury	-29427-05-31 19:40 J	-9026637.80	-9026637.68	-9026637.56	0.2678	0.0116
Mercury	-29417-12-01 21:35 J	-9022800.74	-9022800.60	-9022800.47	0.2653	0.0668

Mercury	-29414-06-03 16:04 J	-9021886.94	-9021886.83	-9021886.72	0.2676	0.1164
Mercury	-29407-05-27 08:23 J	-9019337.24	-9019337.15	-9019337.05	0.2681	0.1714
Mercury	-29404-12-04 22:04 J	-9018049.72	-9018049.58	-9018049.45	0.2655	0.0635
Mercury	-29401-06-05 12:57 J	-9017136.03	-9017135.96	-9017135.90	0.2674	0.2228
Mercury	-29394-05-30 04:33 J	-9014586.42	-9014586.31	-9014586.19	0.2680	0.0714
Mercury	-29391-12-07 22:04 J	-9013298.67	-9013298.58	-9013298.49	0.2657	0.1882
Mercury	-29384-11-30 02:23 J	-9010749.50	-9010749.40	-9010749.29	0.2652	0.1754
Mercury	-29381-06-01 00:57 J	-9009835.58	-9009835.46	-9009835.34	0.2678	0.0314
Mercury	-29374-05-25 17:45 J	-9007285.80	-9007285.76	-9007285.72	0.2683	0.2501
Mercury	-29371-12-03 03:21 J	-9005998.50	-9005998.36	-9005998.23	0.2653	0.0430
Mercury	-29368-06-03 21:21 J	-9005084.71	-9005084.61	-9005084.50	0.2676	0.1359
Mercury	-29361-05-27 13:40 J	-9002535.03	-9002534.93	-9002534.83	0.2681	0.1526
Venus	-29360-04-24 17:02 J	-9002202.88	-9002202.79	-9002202.70	0.2701	0.2181
Mercury	-29358-12-06 03:35 J	-9001247.48	-9001247.35	-9001247.22	0.2655	0.0869
Mercury	-29355-06-06 17:59 J	-9000333.79	-9000333.75	-9000333.70	0.2674	0.2434
Venus	-29352-04-22 10:04 J	-8999283.22	-8999283.08	-8999282.94	0.2702	0.1165
Mercury	-29348-05-30 09:50 J	-8997784.21	-8997784.09	-8997783.98	0.2679	0.0526
Mercury	-29345-12-08 03:50 J	-8996496.42	-8996496.34	-8996496.26	0.2657	0.2113
Mercury	-29338-12-01 08:09 J	-8993947.27	-8993947.16	-8993947.04	0.2652	0.1512
Mercury	-29335-06-02 05:59 J	-8993033.37	-8993033.25	-8993033.13	0.2678	0.0512
Mercury	-29328-05-25 22:47 J	-8990483.61	-8990483.55	-8990483.49	0.2683	0.2323
Mercury	-29325-12-03 09:07 J	-8989196.26	-8989196.12	-8989195.99	0.2654	0.0193
Mercury	-29322-06-05 02:38 J	-8988282.49	-8988282.39	-8988282.29	0.2676	0.1563
Mercury	-29315-05-28 18:43 J	-8985732.82	-8985732.72	-8985732.61	0.2681	0.1340
Mercury	-29312-12-06 09:21 J	-8984445.23	-8984445.11	-8984444.98	0.2656	0.1101
Mercury	-29309-06-06 23:31 J	-8983531.54	-8983531.52	-8983531.51	0.2674	0.2643
Mercury	-29305-11-28 12:57 J	-8981895.97	-8981895.96	-8981895.94	0.2651	0.2624
Mercury	-29302-05-31 14:52 J	-8980982.00	-8980981.88	-8980981.76	0.2679	0.0337
Mercury	-29299-12-09 09:21 J	-8979694.17	-8979694.11	-8979694.05	0.2657	0.2339
Mercury	-29292-12-01 14:09 J	-8977145.03	-8977144.91	-8977144.79	0.2652	0.1260

Mercury	-29289-06-02 11:16 J	-8976231.15	-8976231.03	-8976230.91	0.2677	0.0705
Mercury	-29282-05-27 03:50 J	-8973681.41	-8973681.34	-8973681.27	0.2682	0.2141
Mercury	-29279-12-04 14:52 J	-8972394.02	-8972393.88	-8972393.75	0.2654	0.0105
Mercury	-29276-06-05 07:55 J	-8971480.26	-8971480.17	-8971480.08	0.2675	0.1763
Mercury	-29269-05-28 23:59 J	-8968930.61	-8968930.50	-8968930.40	0.2681	0.1153
Mercury	-29266-12-07 15:07 J	-8967642.99	-8967642.87	-8967642.75	0.2656	0.1335
Venus	-29263-10-26 03:35 J	-8966589.49	-8966589.35	-8966589.20	0.2631	0.1327
Mercury	-29259-11-29 18:57 J	-8965093.77	-8965093.71	-8965093.65	0.2651	0.2372
Mercury	-29256-05-31 20:09 J	-8964179.78	-8964179.66	-8964179.54	0.2679	0.0146
Venus	-29255-10-23 16:47 J	-8963669.87	-8963669.80	-8963669.73	0.2630	0.2364
Mercury	-29253-12-09 15:07 J	-8962891.90	-8962891.87	-8962891.84	0.2658	0.2570
Mercury	-29246-12-02 19:55 J	-8960342.80	-8960342.67	-8960342.54	0.2653	0.1017
Mercury	-29243-06-03 16:33 J	-8959428.93	-8959428.81	-8959428.70	0.2677	0.0904
Mercury	-29236-05-27 09:07 J	-8956879.20	-8956879.12	-8956879.04	0.2682	0.1958
Mercury	-29233-12-04 20:38 J	-8955591.78	-8955591.64	-8955591.51	0.2654	0.0312
Mercury	-29230-06-06 13:11 J	-8954678.04	-8954677.95	-8954677.87	0.2675	0.1970
Mercury	-29223-05-30 05:02 J	-8952128.40	-8952128.29	-8952128.18	0.2680	0.0964
Mercury	-29220-12-07 20:38 J	-8950840.74	-8950840.64	-8950840.53	0.2656	0.1571
Mercury	-29213-11-30 00:43 J	-8948291.55	-8948291.47	-8948291.39	0.2651	0.2120
Mercury	-29210-06-02 01:11 J	-8947377.57	-8947377.45	-8947377.32	0.2679	0.0105
Mercury	-29200-12-03 01:40 J	-8943540.56	-8943540.43	-8943540.30	0.2653	0.0769
Mercury	-29197-06-03 21:35 J	-8942626.71	-8942626.60	-8942626.49	0.2677	0.1104
Mercury	-29190-05-28 14:09 J	-8940077.00	-8940076.91	-8940076.82	0.2682	0.1771
Mercury	-29187-12-06 02:09 J	-8938789.54	-8938789.41	-8938789.27	0.2655	0.0542
Mercury	-29184-06-06 18:14 J	-8937875.81	-8937875.74	-8937875.67	0.2675	0.2170
Mercury	-29177-05-30 10:19 J	-8935326.19	-8935326.07	-8935325.96	0.2680	0.0777
Mercury	-29174-12-09 02:23 J	-8934038.50	-8934038.40	-8934038.30	0.2657	0.1804
Mercury	-29167-12-01 06:28 J	-8931489.33	-8931489.23	-8931489.13	0.2651	0.1873
Mercury	-29164-06-02 06:28 J	-8930575.35	-8930575.23	-8930575.11	0.2678	0.0253
Mercury	-29157-05-25 23:31 J	-8928025.55	-8928025.52	-8928025.49	0.2683	0.2564

Mercury	-29154-12-04 07:26 J	-8926738.32	-8926738.19	-8926738.05	0.2653	0.0526
Mercury	-29151-06-05 02:52 J	-8925824.49	-8925824.38	-8925824.27	0.2677	0.1300
Mercury	-29144-05-28 19:11 J	-8923274.79	-8923274.70	-8923274.60	0.2682	0.1588
Mercury	-29141-12-06 07:55 J	-8921987.30	-8921987.17	-8921987.04	0.2655	0.0781
Mercury	-29138-06-07 23:31 J	-8921073.57	-8921073.52	-8921073.46	0.2675	0.2379
Mercury	-29131-05-31 15:21 J	-8918523.97	-8918523.86	-8918523.74	0.2680	0.0581
Mercury	-29128-12-09 08:09 J	-8917236.25	-8917236.16	-8917236.08	0.2657	0.2035
Mercury	-29121-12-01 12:14 J	-8914687.09	-8914686.99	-8914686.88	0.2651	0.1626
Mercury	-29118-06-03 11:45 J	-8913773.13	-8913773.01	-8913772.89	0.2678	0.0458
Venus	-29117-04-24 20:09 J	-8913446.73	-8913446.66	-8913446.59	0.2701	0.2393
Mercury	-29111-05-27 04:33 J	-8911223.36	-8911223.31	-8911223.26	0.2683	0.2380
Venus	-29109-04-22 13:11 J	-8910527.09	-8910526.95	-8910526.80	0.2702	0.0942
Mercury	-29108-12-04 13:11 J	-8909936.09	-8909935.95	-8909935.81	0.2653	0.0282
Mercury	-29105-06-05 08:09 J	-8909022.26	-8909022.16	-8909022.06	0.2676	0.1503
Mercury	-29098-05-30 00:28 J	-8906472.58	-8906472.48	-8906472.38	0.2681	0.1396
Mercury	-29095-12-07 13:40 J	-8905185.06	-8905184.93	-8905184.80	0.2655	0.1014
Mercury	-29092-06-08 04:47 J	-8904271.33	-8904271.30	-8904271.27	0.2674	0.2580
Mercury	-29085-05-31 20:38 J	-8901721.76	-8901721.64	-8901721.52	0.2680	0.0394
Mercury	-29082-12-10 13:55 J	-8900433.99	-8900433.92	-8900433.86	0.2657	0.2274
Mercury	-29075-12-02 18:14 J	-8897884.86	-8897884.74	-8897884.63	0.2652	0.1380
Mercury	-29072-06-03 16:47 J	-8896970.92	-8896970.80	-8896970.68	0.2678	0.0649
Mercury	-29065-05-27 09:35 J	-8894421.16	-8894421.10	-8894421.03	0.2683	0.2201
Mercury	-29062-12-05 18:57 J	-8893133.85	-8893133.71	-8893133.57	0.2654	0.0042
Mercury	-29059-06-06 13:26 J	-8892220.04	-8892219.94	-8892219.85	0.2676	0.1709
Mercury	-29052-05-30 05:31 J	-8889670.37	-8889670.27	-8889670.16	0.2681	0.1211
Mercury	-29049-12-07 19:26 J	-8888382.81	-8888382.69	-8888382.57	0.2655	0.1254
Mercury	-29042-11-30 22:47 J	-8885833.59	-8885833.55	-8885833.50	0.2650	0.2500
Mercury	-29039-06-02 01:40 J	-8884919.55	-8884919.43	-8884919.31	0.2679	0.0198
Mercury	-29036-12-10 19:26 J	-8883631.73	-8883631.69	-8883631.65	0.2657	0.2501
Mercury	-29029-12-02 23:59 J	-8881082.63	-8881082.50	-8881082.38	0.2652	0.1128

Mercury	-29026-06-04 22:04 J	-8880168.70	-8880168.58	-8880168.47	0.2678	0.0847
Venus	-29020-10-26 03:07 J	-8877833.50	-8877833.37	-8877833.23	0.2631	0.1429
Mercury	-29019-05-28 14:52 J	-8877618.96	-8877618.88	-8877618.81	0.2683	0.2014
Mercury	-29016-12-06 00:43 J	-8876331.61	-8876331.47	-8876331.33	0.2654	0.0201
Mercury	-29013-06-06 18:28 J	-8875417.81	-8875417.73	-8875417.64	0.2676	0.1913
Venus	-29012-10-23 16:19 J	-8874913.90	-8874913.82	-8874913.73	0.2630	0.2233
Mercury	-29006-05-31 10:47 J	-8872868.16	-8872868.05	-8872867.94	0.2681	0.1022
Mercury	-29003-12-09 00:57 J	-8871580.57	-8871580.46	-8871580.34	0.2656	0.1489

29TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 29th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-28996-12-01 04:47 J	-8869031.38	-8869031.30	-8869031.23	0.2650	0.2246		
Mercury	-28993-06-02 06:57 J	-8868117.33	-8868117.21	-8868117.09	0.2679	0.0088		
Mercury	-28983-12-04 05:45 J	-8864280.39	-8864280.26	-8864280.13	0.2652	0.0882		
Mercury	-28980-06-05 03:07 J	-8863366.48	-8863366.37	-8863366.25	0.2677	0.1048		
Mercury	-28973-05-28 19:55 J	-8860816.76	-8860816.67	-8860816.59	0.2682	0.1832		
Mercury	-28970-12-07 06:28 J	-8859529.37	-8859529.23	-8859529.10	0.2654	0.0445		
Mercury	-28967-06-07 23:45 J	-8858615.58	-8858615.51	-8858615.43	0.2675	0.2119		
Mercury	-28960-05-31 15:50 J	-8856065.95	-8856065.84	-8856065.72	0.2681	0.0829		
Mercury	-28957-12-09 06:43 J	-8854778.32	-8854778.22	-8854778.12	0.2656	0.1723		
Mercury	-28950-12-02 10:33 J	-8852229.15	-8852229.06	-8852228.97	0.2651	0.1994		
Mercury	-28947-06-03 11:59 J	-8851315.12	-8851315.00	-8851314.88	0.2679	0.0202		

Mercury	-28940-05-27 05:16 J	-8848765.30	-8848765.28	-8848765.26	0.2684	0.2625
Mercury	-28937-12-04 11:31 J	-8847478.15	-8847478.02	-8847477.88	0.2653	0.0632
Mercury	-28934-06-06 08:23 J	-8846564.26	-8846564.15	-8846564.04	0.2677	0.1247
Mercury	-28927-05-30 00:57 J	-8844014.55	-8844014.46	-8844014.36	0.2682	0.1644
Mercury	-28924-12-07 12:14 J	-8842727.12	-8842726.99	-8842726.86	0.2654	0.0685
Mercury	-28921-06-08 05:02 J	-8841813.35	-8841813.29	-8841813.23	0.2675	0.2319
Mercury	-28914-06-01 21:07 J	-8839263.74	-8839263.62	-8839263.51	0.2680	0.0648
Mercury	-28911-12-10 12:28 J	-8837976.07	-8837975.98	-8837975.89	0.2656	0.1962
Mercury	-28904-12-02 16:19 J	-8835426.92	-8835426.82	-8835426.71	0.2651	0.1743
Mercury	-28901-06-03 17:16 J	-8834512.90	-8834512.78	-8834512.66	0.2679	0.0396
Mercury	-28894-05-28 10:19 J	-8831963.12	-8831963.07	-8831963.02	0.2684	0.2440
Mercury	-28891-12-05 17:16 J	-8830675.91	-8830675.78	-8830675.64	0.2653	0.0393
Mercury	-28888-06-06 13:40 J	-8829762.03	-8829761.93	-8829761.83	0.2677	0.1449
Mercury	-28881-05-30 06:14 J	-8827212.34	-8827212.24	-8827212.15	0.2682	0.1460
Mercury	-28878-12-08 17:59 J	-8825924.88	-8825924.75	-8825924.62	0.2655	0.0930
Mercury	-28875-06-09 10:19 J	-8825011.11	-8825011.07	-8825011.04	0.2675	0.2528
Venus	-28874-04-25 23:16 J	-8824690.57	-8824690.53	-8824690.49	0.2702	0.2597
Mercury	-28868-06-02 02:09 J	-8822461.53	-8822461.41	-8822461.29	0.2680	0.0446
Venus	-28866-04-23 16:04 J	-8821770.97	-8821770.83	-8821770.68	0.2703	0.0766
Mercury	-28865-12-10 18:14 J	-8821173.82	-8821173.74	-8821173.67	0.2657	0.2198
Mercury	-28858-12-03 22:19 J	-8818624.69	-8818624.57	-8818624.46	0.2651	0.1492
Mercury	-28855-06-04 22:19 J	-8817710.68	-8817710.57	-8817710.45	0.2678	0.0594
Mercury	-28848-05-28 15:21 J	-8815160.92	-8815160.86	-8815160.79	0.2683	0.2255
Mercury	-28845-12-05 23:02 J	-8813873.68	-8813873.54	-8813873.40	0.2653	0.0151
Mercury	-28842-06-07 18:43 J	-8812959.81	-8812959.72	-8812959.62	0.2676	0.1653
Mercury	-28835-05-31 11:16 J	-8810410.13	-8810410.03	-8810409.92	0.2682	0.1266
Mercury	-28832-12-08 23:45 J	-8809122.64	-8809122.51	-8809122.39	0.2655	0.1168
Mercury	-28825-12-01 02:52 J	-8806573.40	-8806573.38	-8806573.37	0.2650	0.2629
Mercury	-28822-06-03 07:26 J	-8805659.31	-8805659.19	-8805659.08	0.2680	0.0274
Mercury	-28819-12-11 23:45 J	-8804371.56	-8804371.51	-8804371.45	0.2657	0.2433

Mercury	-28812-12-04 04:04 J	-8801822.45	-8801822.33	-8801822.21	0.2651	0.1241
Mercury	-28809-06-05 03:35 J	-8800908.47	-8800908.35	-8800908.24	0.2678	0.0788
Mercury	-28802-05-29 20:23 J	-8798358.72	-8798358.65	-8798358.57	0.2683	0.2077
Mercury	-28799-12-07 04:47 J	-8797071.43	-8797071.30	-8797071.16	0.2653	0.0133
Mercury	-28796-06-07 23:59 J	-8796157.58	-8796157.50	-8796157.41	0.2676	0.1854
Mercury	-28789-05-31 16:19 J	-8793607.93	-8793607.82	-8793607.71	0.2682	0.1078
Mercury	-28786-12-10 05:16 J	-8792320.39	-8792320.28	-8792320.16	0.2655	0.1412
Mercury	-28779-12-02 08:38 J	-8789771.20	-8789771.14	-8789771.08	0.2650	0.2378
Venus	-28777-10-26 02:38 J	-8789077.53	-8789077.39	-8789077.26	0.2630	0.1506
Mercury	-28776-06-03 12:28 J	-8788857.10	-8788856.98	-8788856.86	0.2680	0.0064
Venus	-28769-10-23 15:50 J	-8786157.93	-8786157.84	-8786157.74	0.2629	0.2130
Mercury	-28766-12-05 09:50 J	-8785020.22	-8785020.09	-8785019.96	0.2652	0.0992
Mercury	-28763-06-06 08:52 J	-8784106.25	-8784106.13	-8784106.02	0.2678	0.0992
Mercury	-28756-05-30 01:40 J	-8781556.52	-8781556.43	-8781556.35	0.2683	0.1886
Mercury	-28753-12-07 10:33 J	-8780269.19	-8780269.06	-8780268.92	0.2653	0.0358
Mercury	-28750-06-09 05:16 J	-8779355.36	-8779355.28	-8779355.20	0.2676	0.2057
Mercury	-28743-06-01 21:35 J	-8776805.72	-8776805.60	-8776805.49	0.2681	0.0889
Mercury	-28740-12-10 11:02 J	-8775518.14	-8775518.04	-8775517.93	0.2655	0.1647
Mercury	-28733-12-02 14:23 J	-8772968.98	-8772968.90	-8772968.81	0.2650	0.2121
Mercury	-28730-06-04 17:45 J	-8772054.88	-8772054.76	-8772054.64	0.2679	0.0166
Mercury	-28723-05-28 11:02 J	-8769505.04	-8769505.04	-8769505.04	0.2684	0.2681
Mercury	-28720-12-05 15:35 J	-8768217.98	-8768217.85	-8768217.72	0.2652	0.0745
Mercury	-28717-06-06 13:55 J	-8767304.03	-8767303.92	-8767303.81	0.2678	0.1195
Mercury	-28710-05-31 06:43 J	-8764754.31	-8764754.22	-8764754.13	0.2683	0.1703
Mercury	-28707-12-08 16:19 J	-8763466.95	-8763466.82	-8763466.68	0.2654	0.0596
Mercury	-28704-06-09 10:33 J	-8762553.12	-8762553.06	-8762553.00	0.2676	0.2266
Mercury	-28697-06-02 02:38 J	-8760003.50	-8760003.39	-8760003.27	0.2681	0.0695
Mercury	-28694-12-11 16:47 J	-8758715.90	-8758715.80	-8758715.71	0.2656	0.1885
Mercury	-28687-12-03 20:23 J	-8756166.75	-8756166.65	-8756166.55	0.2651	0.1864
Mercury	-28684-06-04 22:47 J	-8755252.67	-8755252.55	-8755252.43	0.2679	0.0340

Mercury	-28677-05-28 16:04 J	-8752702.87	-8752702.83	-8752702.79	0.2684	0.2499
Mercury	-28674-12-06 21:21 J	-8751415.74	-8751415.61	-8751415.47	0.2652	0.0496
Mercury	-28671-06-07 19:11 J	-8750501.80	-8750501.70	-8750501.60	0.2677	0.1391
Mercury	-28664-05-31 11:45 J	-8747952.10	-8747952.01	-8747951.91	0.2682	0.1514
Mercury	-28661-12-08 22:04 J	-8746664.71	-8746664.58	-8746664.45	0.2654	0.0835
Mercury	-28658-06-10 15:35 J	-8745750.89	-8745750.85	-8745750.80	0.2676	0.2475
Mercury	-28651-06-03 07:55 J	-8743201.29	-8743201.17	-8743201.06	0.2681	0.0510
Mercury	-28648-12-11 22:33 J	-8741913.64	-8741913.56	-8741913.48	0.2656	0.2120
Mercury	-28641-12-04 02:09 J	-8739364.52	-8739364.41	-8739364.30	0.2651	0.1609
Mercury	-28638-06-06 04:04 J	-8738450.45	-8738450.33	-8738450.22	0.2679	0.0541
Mercury	-28631-05-29 21:07 J	-8735900.68	-8735900.62	-8735900.56	0.2684	0.2318
Mercury	-28628-12-07 03:21 J	-8734613.50	-8734613.36	-8734613.23	0.2653	0.0252
Mercury	-28625-06-08 00:14 J	-8733699.58	-8733699.49	-8733699.39	0.2677	0.1598
Venus	-28623-04-23 19:11 J	-8733014.85	-8733014.70	-8733014.55	0.2704	0.0561
Mercury	-28618-06-01 17:02 J	-8731149.90	-8731149.79	-8731149.69	0.2682	0.1330
Mercury	-28615-12-10 03:50 J	-8729862.46	-8729862.34	-8729862.21	0.2654	0.1082
Mercury	-28605-06-03 12:57 J	-8726399.08	-8726398.96	-8726398.84	0.2680	0.0307
Mercury	-28602-12-13 04:04 J	-8725111.39	-8725111.33	-8725111.27	0.2656	0.2356
Mercury	-28595-12-05 08:09 J	-8722562.28	-8722562.16	-8722562.04	0.2651	0.1357
Mercury	-28592-06-06 09:07 J	-8721648.23	-8721648.12	-8721648.00	0.2679	0.0734
Mercury	-28585-05-30 02:09 J	-8719098.48	-8719098.41	-8719098.34	0.2684	0.2132
Mercury	-28582-12-08 09:07 J	-8717811.26	-8717811.12	-8717810.98	0.2653	0.0048
Mercury	-28579-06-09 05:31 J	-8716897.36	-8716897.27	-8716897.18	0.2677	0.1798
Mercury	-28572-06-01 22:04 J	-8714347.69	-8714347.58	-8714347.47	0.2682	0.1134
Mercury	-28569-12-10 09:35 J	-8713060.22	-8713060.10	-8713059.98	0.2655	0.1323
Mercury	-28562-12-03 12:28 J	-8710511.02	-8710510.98	-8710510.93	0.2649	0.2503
Mercury	-28559-06-04 17:59 J	-8709596.87	-8709596.75	-8709596.63	0.2680	0.0146
Mercury	-28556-12-13 09:50 J	-8708309.12	-8708309.09	-8708309.07	0.2657	0.2596
Mercury	-28549-12-05 13:55 J	-8705760.05	-8705759.92	-8705759.79	0.2651	0.1102
Mercury	-28546-06-07 14:23 J	-8704846.02	-8704845.90	-8704845.79	0.2678	0.0936

Mercury	-28539-05-31 07:26 J	-8702296.27	-8702296.19	-8702296.11	0.2684	0.1947
Mercury	-28536-12-08 14:52 J	-8701009.02	-8701008.88	-8701008.74	0.2653	0.0257
Venus	-28534-10-27 02:23 J	-8700321.53	-8700321.40	-8700321.27	0.2629	0.1629
Mercury	-28533-06-09 10:47 J	-8700095.13	-8700095.05	-8700094.97	0.2676	0.2004
Mercury	-28526-06-03 03:07 J	-8697545.48	-8697545.37	-8697545.25	0.2682	0.0948
Venus	-28526-10-24 15:50 J	-8697401.95	-8697401.84	-8697401.74	0.2628	0.1994
Mercury	-28523-12-11 15:21 J	-8696257.97	-8696257.86	-8696257.75	0.2655	0.1567
Mercury	-28516-12-03 18:28 J	-8693708.80	-8693708.73	-8693708.66	0.2650	0.2242
Mercury	-28513-06-04 23:16 J	-8692794.65	-8692794.53	-8692794.41	0.2680	0.0085
Mercury	-28503-12-06 19:40 J	-8688957.81	-8688957.68	-8688957.55	0.2651	0.0850
Mercury	-28500-06-07 19:26 J	-8688043.80	-8688043.69	-8688043.58	0.2678	0.1132
Mercury	-28493-05-31 12:28 J	-8685494.07	-8685493.98	-8685493.89	0.2683	0.1756
Mercury	-28490-12-09 20:38 J	-8684206.78	-8684206.64	-8684206.51	0.2653	0.0506
Mercury	-28487-06-10 15:50 J	-8683292.90	-8683292.84	-8683292.77	0.2676	0.2211
Mercury	-28480-06-03 08:23 J	-8680743.27	-8680743.15	-8680743.04	0.2681	0.0751
Mercury	-28477-12-11 21:07 J	-8679455.72	-8679455.62	-8679455.52	0.2655	0.1805
Mercury	-28470-12-05 00:14 J	-8676906.58	-8676906.49	-8676906.40	0.2650	0.1989
Mercury	-28467-06-06 04:19 J	-8675992.44	-8675992.32	-8675992.20	0.2680	0.0291
Mercury	-28460-05-29 21:50 J	-8673442.62	-8673442.59	-8673442.56	0.2685	0.2557
Mercury	-28457-12-07 01:26 J	-8672155.57	-8672155.44	-8672155.30	0.2652	0.0602
Mercury	-28454-06-09 00:43 J	-8671241.58	-8671241.47	-8671241.37	0.2678	0.1337
Mercury	-28447-06-01 17:31 J	-8668691.86	-8668691.77	-8668691.67	0.2683	0.1572
Mercury	-28444-12-10 02:23 J	-8667404.53	-8667404.40	-8667404.27	0.2653	0.0749
Mercury	-28441-06-10 21:07 J	-8666490.67	-8666490.62	-8666490.57	0.2676	0.2418
Mercury	-28434-06-04 13:26 J	-8663941.05	-8663940.94	-8663940.82	0.2681	0.0558
Mercury	-28431-12-13 02:38 J	-8662653.47	-8662653.39	-8662653.30	0.2655	0.2047
Mercury	-28424-12-05 06:14 J	-8660104.35	-8660104.24	-8660104.14	0.2650	0.1732
Mercury	-28421-06-06 09:35 J	-8659190.22	-8659190.10	-8659189.98	0.2679	0.0480
Mercury	-28414-05-31 02:52 J	-8656640.43	-8656640.38	-8656640.33	0.2685	0.2375
Mercury	-28411-12-08 07:11 J	-8655353.33	-8655353.20	-8655353.06	0.2652	0.0358

Mercury	-28408-06-09 05:59 J	-8654439.35	-8654439.25	-8654439.16	0.2678	0.1543
Mercury	-28401-06-01 22:47 J	-8651889.66	-8651889.55	-8651889.45	0.2683	0.1383
Mercury	-28398-12-11 08:09 J	-8650602.29	-8650602.16	-8650602.04	0.2654	0.0994
Mercury	-28395-06-12 02:23 J	-8649688.42	-8649688.40	-8649688.38	0.2676	0.2627
Mercury	-28388-06-04 18:43 J	-8647138.84	-8647138.72	-8647138.61	0.2681	0.0379
Mercury	-28385-12-13 08:23 J	-8645851.21	-8645851.15	-8645851.08	0.2656	0.2287
Venus	-28380-04-23 21:50 J	-8644258.74	-8644258.59	-8644258.44	0.2704	0.0393
Mercury	-28378-12-06 11:59 J	-8643302.12	-8643302.00	-8643301.88	0.2650	0.1473
Mercury	-28375-06-07 14:38 J	-8642388.00	-8642387.89	-8642387.77	0.2679	0.0684
Mercury	-28368-05-31 07:55 J	-8639838.23	-8639838.17	-8639838.10	0.2684	0.2190
Mercury	-28365-12-08 13:11 J	-8638551.09	-8638550.95	-8638550.82	0.2652	0.0130
Mercury	-28362-06-10 11:02 J	-8637637.13	-8637637.04	-8637636.95	0.2677	0.1749
Mercury	-28355-06-03 03:50 J	-8635087.45	-8635087.34	-8635087.24	0.2683	0.1195
Mercury	-28352-12-11 13:40 J	-8633800.05	-8633799.93	-8633799.80	0.2654	0.1237
Mercury	-28345-12-03 16:33 J	-8631250.83	-8631250.81	-8631250.80	0.2649	0.2628
Mercury	-28342-06-05 23:45 J	-8630336.63	-8630336.51	-8630336.39	0.2681	0.0167
Mercury	-28339-12-14 14:09 J	-8629048.95	-8629048.91	-8629048.87	0.2656	0.2525
Mercury	-28332-12-06 17:59 J	-8626499.88	-8626499.75	-8626499.63	0.2651	0.1217
Mercury	-28329-06-07 19:55 J	-8625585.78	-8625585.67	-8625585.56	0.2679	0.0879
Mercury	-28322-06-01 13:11 J	-8623036.03	-8623035.95	-8623035.88	0.2684	0.2005
Mercury	-28319-12-09 18:57 J	-8621748.85	-8621748.71	-8621748.57	0.2652	0.0168
Mercury	-28316-06-10 16:19 J	-8620834.90	-8620834.82	-8620834.74	0.2677	0.1950
Mercury	-28309-06-03 08:52 J	-8618285.24	-8618285.13	-8618285.02	0.2682	0.1000
Mercury	-28306-12-12 19:26 J	-8616997.80	-8616997.69	-8616997.57	0.2654	0.1480
Mercury	-28299-12-04 22:19 J	-8614448.63	-8614448.57	-8614448.51	0.2649	0.2371
Mercury	-28296-06-06 04:47 J	-8613534.42	-8613534.30	-8613534.18	0.2680	0.0071
Venus	-28291-10-27 01:55 J	-8611565.54	-8611565.42	-8611565.30	0.2628	0.1728
Mercury	-28286-12-07 23:45 J	-8609697.64	-8609697.51	-8609697.38	0.2651	0.0959
Mercury	-28283-06-09 00:57 J	-8608783.57	-8608783.46	-8608783.34	0.2679	0.1085
Venus	-28283-10-24 15:35 J	-8608645.97	-8608645.85	-8608645.74	0.2627	0.1872

Mercury	-28276-06-01 18:14 J	-8606233.83	-8606233.74	-8606233.66	0.2684	0.1817
Mercury	-28273-12-10 00:43 J	-8604946.61	-8604946.47	-8604946.33	0.2653	0.0406
Mercury	-28270-06-11 21:35 J	-8604032.67	-8604032.60	-8604032.53	0.2677	0.2160
Mercury	-28263-06-04 13:55 J	-8601483.03	-8601482.92	-8601482.80	0.2682	0.0813
Mercury	-28260-12-13 01:11 J	-8600195.55	-8600195.45	-8600195.34	0.2655	0.1727
Mercury	-28253-12-05 04:19 J	-8597646.41	-8597646.32	-8597646.24	0.2649	0.2109
Mercury	-28250-06-07 10:04 J	-8596732.20	-8596732.08	-8596731.96	0.2680	0.0229
Mercury	-28243-05-31 03:35 J	-8594182.37	-8594182.35	-8594182.33	0.2685	0.2615
Mercury	-28240-12-08 05:31 J	-8592895.40	-8592895.27	-8592895.13	0.2651	0.0706
Mercury	-28237-06-09 06:14 J	-8591981.34	-8591981.24	-8591981.13	0.2678	0.1282
Mercury	-28230-06-02 23:16 J	-8589431.62	-8589431.53	-8589431.44	0.2684	0.1625
Mercury	-28227-12-11 06:28 J	-8588144.36	-8588144.23	-8588144.10	0.2653	0.0655
Mercury	-28224-06-12 02:38 J	-8587230.44	-8587230.39	-8587230.33	0.2676	0.2365
Mercury	-28217-06-04 19:11 J	-8584680.82	-8584680.70	-8584680.59	0.2682	0.0617
Mercury	-28214-12-14 06:57 J	-8583393.30	-8583393.21	-8583393.12	0.2655	0.1972
Mercury	-28207-12-06 10:04 J	-8580844.18	-8580844.08	-8580843.98	0.2649	0.1851
Mercury	-28204-06-07 15:07 J	-8579929.99	-8579929.87	-8579929.75	0.2680	0.0424
Mercury	-28197-05-31 08:38 J	-8577380.18	-8577380.14	-8577380.09	0.2685	0.2430
Mercury	-28194-12-09 11:16 J	-8576093.16	-8576093.03	-8576092.89	0.2651	0.0454
Mercury	-28191-06-10 11:31 J	-8575179.12	-8575179.02	-8575178.92	0.2678	0.1489
Mercury	-28184-06-03 04:19 J	-8572629.42	-8572629.32	-8572629.22	0.2683	0.1439
Mercury	-28181-12-11 12:14 J	-8571342.12	-8571341.99	-8571341.86	0.2653	0.0903
Mercury	-28178-06-13 07:55 J	-8570428.20	-8570428.17	-8570428.14	0.2676	0.2573
Mercury	-28171-06-06 00:14 J	-8567878.61	-8567878.49	-8567878.37	0.2682	0.0420
Mercury	-28168-12-14 12:43 J	-8566591.04	-8566590.97	-8566590.90	0.2655	0.2215
Mercury	-28161-12-06 16:04 J	-8564041.95	-8564041.83	-8564041.72	0.2650	0.1592
Mercury	-28158-06-08 20:23 J	-8563127.77	-8563127.65	-8563127.53	0.2680	0.0627
Mercury	-28151-06-01 13:40 J	-8560577.99	-8560577.93	-8560577.86	0.2685	0.2247
Mercury	-28148-12-09 17:16 J	-8559290.92	-8559290.78	-8559290.65	0.2652	0.0219
Mercury	-28145-06-10 16:33 J	-8558376.90	-8558376.81	-8558376.71	0.2678	0.1691

Mercury	-28138-06-04 09:35 J	-8555827.21	-8555827.10	-8555827.00	0.2683	0.1249
Venus	-28137-04-24 00:28 J	-8555502.63	-8555502.48	-8555502.32	0.2705	0.0225
Mercury	-28135-12-12 17:59 J	-8554539.87	-8554539.75	-8554539.63	0.2653	0.1153
Mercury	-28125-06-06 05:31 J	-8551076.39	-8551076.27	-8551076.16	0.2681	0.0243
Mercury	-28122-12-15 18:28 J	-8549788.78	-8549788.73	-8549788.68	0.2655	0.2454
Mercury	-28115-12-07 21:50 J	-8547239.71	-8547239.59	-8547239.47	0.2650	0.1336
Mercury	-28112-06-09 01:26 J	-8546325.55	-8546325.44	-8546325.32	0.2679	0.0829
Mercury	-28105-06-01 18:57 J	-8543775.79	-8543775.71	-8543775.64	0.2685	0.2062
Mercury	-28102-12-10 23:02 J	-8542488.68	-8542488.54	-8542488.40	0.2652	0.0070
Mercury	-28099-06-11 21:50 J	-8541574.67	-8541574.59	-8541574.51	0.2678	0.1901
Mercury	-28092-06-04 14:38 J	-8539025.00	-8539024.89	-8539024.78	0.2683	0.1056
Mercury	-28089-12-12 23:45 J	-8537737.63	-8537737.51	-8537737.39	0.2654	0.1399
Mercury	-28082-12-06 02:09 J	-8535188.45	-8535188.41	-8535188.36	0.2649	0.2500
Mercury	-28079-06-07 10:33 J	-8534274.18	-8534274.06	-8534273.94	0.2681	0.0026
Mercury	-28069-12-08 03:35 J	-8530437.48	-8530437.35	-8530437.22	0.2650	0.1076
Mercury	-28066-06-10 06:43 J	-8529523.33	-8529523.22	-8529523.11	0.2679	0.1030
Mercury	-28059-06-02 23:59 J	-8526973.59	-8526973.50	-8526973.42	0.2684	0.1872
Mercury	-28056-12-11 04:47 J	-8525686.44	-8525686.30	-8525686.16	0.2652	0.0308
Mercury	-28053-06-12 03:07 J	-8524772.45	-8524772.37	-8524772.30	0.2677	0.2106
Venus	-28048-10-27 01:55 J	-8522809.53	-8522809.42	-8522809.30	0.2628	0.1858
Mercury	-28046-06-05 19:40 J	-8522222.79	-8522222.68	-8522222.57	0.2682	0.0863
Mercury	-28043-12-14 05:31 J	-8520935.38	-8520935.27	-8520935.16	0.2654	0.1646
Venus	-28040-10-24 15:35 J	-8519889.97	-8519889.85	-8519889.72	0.2627	0.1713
Mercury	-28036-12-06 08:09 J	-8518386.24	-8518386.16	-8518386.09	0.2649	0.2238
Mercury	-28033-06-07 15:35 J	-8517471.97	-8517471.85	-8517471.73	0.2681	0.0192
Mercury	-28026-06-01 09:21 J	-8514922.11	-8514922.11	-8514922.10	0.2686	0.2674
Mercury	-28023-12-09 09:35 J	-8513635.24	-8513635.10	-8513634.97	0.2651	0.0819
Mercury	-28020-06-10 11:45 J	-8512721.11	-8512721.01	-8512720.90	0.2679	0.1237
Mercury	-28013-06-03 05:02 J	-8510171.38	-8510171.29	-8510171.20	0.2684	0.1685
Mercury	-28010-12-12 10:33 J	-8508884.20	-8508884.06	-8508883.92	0.2652	0.0561

Mercury -28007-06-13 08:09 J -8507970.22 -8507970.16 -8507970.10 0.2677 0.2316

28TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 28th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-28000-06-06 00:43 J		-8505420.58	-8505420.47	-8505420.35	0.2682	0.0677	
Mercury	-27997-12-14 11:16 J		-8504133.13	-8504133.03	-8504132.94	0.2654	0.1892	
Mercury	-27990-12-07 13:55 J		-8501584.01	-8501583.92	-8501583.82	0.2649	0.1972	
Mercury	-27987-06-08 20:52 J		-8500669.75	-8500669.63	-8500669.51	0.2680	0.0374	
Mercury	-27980-06-01 14:23 J		-8498119.94	-8498119.90	-8498119.85	0.2686	0.2487	
Mercury	-27977-12-09 15:21 J		-8496832.99	-8496832.86	-8496832.72	0.2651	0.0559	
Mercury	-27974-06-11 17:02 J		-8495918.89	-8495918.79	-8495918.69	0.2679	0.1434	
Mercury	-27967-06-04 10:04 J		-8493369.18	-8493369.08	-8493368.98	0.2684	0.1495	
Mercury	-27964-12-12 16:19 J		-8492081.95	-8492081.82	-8492081.69	0.2653	0.0815	
Mercury	-27961-06-13 13:26 J		-8491167.98	-8491167.94	-8491167.90	0.2677	0.2521	
Mercury	-27954-06-07 05:59 J		-8488618.37	-8488618.25	-8488618.13	0.2682	0.0475	
Mercury	-27951-12-15 17:02 J		-8487330.87	-8487330.79	-8487330.71	0.2655	0.2139	
Mercury	-27944-12-07 19:55 J		-8484781.78	-8484781.67	-8484781.56	0.2649	0.1712	
Mercury	-27941-06-09 01:55 J		-8483867.54	-8483867.42	-8483867.30	0.2680	0.0571	
Mercury	-27934-06-02 19:26 J		-8481317.74	-8481317.69	-8481317.63	0.2685	0.2304	
Mercury	-27931-12-10 21:21 J		-8480030.75	-8480030.61	-8480030.48	0.2651	0.0308	
Mercury	-27928-06-11 22:04 J		-8479116.67	-8479116.58	-8479116.48	0.2678	0.1644	
Mercury	-27921-06-04 15:07 J		-8476566.97	-8476566.87	-8476566.76	0.2684	0.1305	

Mercury	-27918-12-13 22:04 J	-8475279.70	-8475279.58	-8475279.45	0.2653	0.1070
Mercury	-27908-06-07 11:02 J	-8471816.16	-8471816.04	-8471815.92	0.2682	0.0284
Mercury	-27905-12-15 22:33 J	-8470528.61	-8470528.56	-8470528.50	0.2655	0.2386
Mercury	-27898-12-09 01:40 J	-8467979.54	-8467979.43	-8467979.31	0.2649	0.1448
Mercury	-27895-06-10 07:11 J	-8467065.32	-8467065.20	-8467065.09	0.2680	0.0775
Venus	-27894-04-25 03:07 J	-8466746.53	-8466746.37	-8466746.22	0.2706	0.0093
Mercury	-27888-06-03 00:43 J	-8464515.54	-8464515.47	-8464515.40	0.2685	0.2115
Mercury	-27885-12-11 03:07 J	-8463228.51	-8463228.37	-8463228.23	0.2651	0.0067
Mercury	-27882-06-13 03:21 J	-8462314.45	-8462314.36	-8462314.27	0.2678	0.1843
Mercury	-27875-06-05 20:23 J	-8459764.76	-8459764.65	-8459764.54	0.2683	0.1108
Mercury	-27872-12-14 03:50 J	-8458477.46	-8458477.34	-8458477.22	0.2653	0.1318
Mercury	-27865-12-06 05:59 J	-8455928.26	-8455928.25	-8455928.24	0.2648	0.2632
Mercury	-27862-06-08 16:19 J	-8455013.94	-8455013.82	-8455013.70	0.2682	0.0104
Mercury	-27859-12-17 04:19 J	-8453726.33	-8453726.32	-8453726.30	0.2655	0.2632
Mercury	-27852-12-09 07:40 J	-8451177.31	-8451177.18	-8451177.06	0.2650	0.1188
Mercury	-27849-06-10 12:14 J	-8450263.10	-8450262.99	-8450262.88	0.2680	0.0976
Mercury	-27842-06-04 05:45 J	-8447713.34	-8447713.26	-8447713.18	0.2685	0.1927
Mercury	-27839-12-12 08:52 J	-8446426.27	-8446426.13	-8446425.99	0.2652	0.0215
Mercury	-27836-06-13 08:38 J	-8445512.22	-8445512.14	-8445512.07	0.2678	0.2055
Mercury	-27829-06-06 01:26 J	-8442962.55	-8442962.44	-8442962.33	0.2683	0.0915
Mercury	-27826-12-15 09:35 J	-8441675.21	-8441675.10	-8441674.99	0.2653	0.1567
Mercury	-27819-12-07 11:59 J	-8439126.06	-8439126.00	-8439125.94	0.2648	0.2364
Mercury	-27816-06-08 21:21 J	-8438211.73	-8438211.61	-8438211.49	0.2681	0.0124
Mercury	-27806-12-10 13:26 J	-8434375.07	-8434374.94	-8434374.80	0.2650	0.0928
Venus	-27805-10-27 01:55 J	-8434053.52	-8434053.42	-8434053.31	0.2627	0.1997
Mercury	-27803-06-11 17:31 J	-8433460.88	-8433460.77	-8433460.66	0.2679	0.1181
Venus	-27797-10-24 15:50 J	-8431133.97	-8431133.84	-8431133.71	0.2626	0.1568
Mercury	-27796-06-04 10:47 J	-8430911.14	-8430911.05	-8430910.96	0.2685	0.1737
Mercury	-27793-12-12 14:38 J	-8429624.03	-8429623.89	-8429623.75	0.2652	0.0466
Mercury	-27790-06-14 13:40 J	-8428709.99	-8428709.93	-8428709.86	0.2678	0.2262

Mercury	-27783-06-07 06:28 J	-8426160.34	-8426160.23	-8426160.11	0.2683	0.0726
Mercury	-27780-12-15 15:21 J	-8424872.96	-8424872.86	-8424872.76	0.2654	0.1816
Mercury	-27773-12-07 17:45 J	-8422323.84	-8422323.76	-8422323.67	0.2648	0.2100
Mercury	-27770-06-10 02:23 J	-8421409.52	-8421409.40	-8421409.28	0.2681	0.0328
Mercury	-27763-06-02 20:09 J	-8418859.69	-8418859.66	-8418859.62	0.2686	0.2547
Mercury	-27760-12-10 19:26 J	-8417572.83	-8417572.69	-8417572.56	0.2650	0.0667
Mercury	-27757-06-11 22:33 J	-8416658.66	-8416658.56	-8416658.45	0.2679	0.1385
Mercury	-27750-06-05 15:50 J	-8414108.93	-8414108.84	-8414108.74	0.2684	0.1548
Mercury	-27747-12-13 20:23 J	-8412821.78	-8412821.65	-8412821.51	0.2652	0.0725
Mercury	-27744-06-14 18:57 J	-8411907.75	-8411907.71	-8411907.66	0.2677	0.2477
Mercury	-27737-06-07 11:45 J	-8409358.13	-8409358.01	-8409357.90	0.2683	0.0527
Mercury	-27734-12-16 21:07 J	-8408070.70	-8408070.62	-8408070.53	0.2654	0.2061
Mercury	-27727-12-08 23:45 J	-8405521.61	-8405521.51	-8405521.41	0.2649	0.1828
Mercury	-27724-06-10 07:40 J	-8404607.30	-8404607.18	-8404607.06	0.2681	0.0522
Mercury	-27717-06-03 01:26 J	-8402057.50	-8402057.44	-8402057.39	0.2686	0.2359
Mercury	-27714-12-12 01:11 J	-8400770.59	-8400770.45	-8400770.31	0.2651	0.0403
Mercury	-27711-06-13 03:50 J	-8399856.44	-8399856.34	-8399856.25	0.2679	0.1591
Mercury	-27704-06-05 20:52 J	-8397306.73	-8397306.63	-8397306.52	0.2684	0.1360
Mercury	-27701-12-14 02:09 J	-8396019.54	-8396019.41	-8396019.28	0.2652	0.0976
Mercury	-27691-06-08 16:47 J	-8392555.92	-8392555.80	-8392555.68	0.2682	0.0330
Mercury	-27688-12-17 02:52 J	-8391268.44	-8391268.38	-8391268.31	0.2654	0.2312
Mercury	-27681-12-09 05:45 J	-8388719.38	-8388719.26	-8388719.15	0.2649	0.1565
Mercury	-27678-06-11 12:43 J	-8387805.08	-8387804.97	-8387804.85	0.2680	0.0723
Mercury	-27671-06-04 06:28 J	-8385255.30	-8385255.23	-8385255.16	0.2686	0.2170
Mercury	-27668-12-12 06:57 J	-8383968.35	-8383968.21	-8383968.07	0.2651	0.0167
Mercury	-27665-06-13 08:52 J	-8383054.21	-8383054.13	-8383054.04	0.2679	0.1801
Mercury	-27658-06-07 02:09 J	-8380504.52	-8380504.41	-8380504.31	0.2684	0.1166
Mercury	-27655-12-15 07:55 J	-8379217.29	-8379217.17	-8379217.04	0.2653	0.1236
Venus	-27651-04-25 05:31 J	-8377990.43	-8377990.27	-8377990.11	0.2707	0.0106
Mercury	-27645-06-08 21:50 J	-8375753.71	-8375753.59	-8375753.47	0.2682	0.0142

Mercury	-27642-12-18 08:38 J	-8374466.17	-8374466.14	-8374466.11	0.2655	0.2558
Mercury	-27635-12-10 11:31 J	-8371917.14	-8371917.02	-8371916.89	0.2649	0.1298
Mercury	-27632-06-11 17:59 J	-8371002.87	-8371002.75	-8371002.64	0.2680	0.0927
Mercury	-27625-06-04 11:31 J	-8368453.10	-8368453.02	-8368452.94	0.2685	0.1977
Mercury	-27622-12-13 12:57 J	-8367166.10	-8367165.96	-8367165.82	0.2651	0.0124
Mercury	-27619-06-14 14:09 J	-8366251.99	-8366251.91	-8366251.83	0.2678	0.2003
Mercury	-27612-06-07 07:11 J	-8363702.31	-8363702.20	-8363702.09	0.2684	0.0969
Mercury	-27609-12-15 13:55 J	-8362415.04	-8362414.92	-8362414.81	0.2653	0.1486
Mercury	-27602-12-08 15:50 J	-8359865.89	-8359865.84	-8359865.80	0.2648	0.2487
Mercury	-27599-06-10 03:07 J	-8358951.49	-8358951.37	-8358951.26	0.2682	0.0118
Mercury	-27589-12-10 17:31 J	-8355114.90	-8355114.77	-8355114.64	0.2649	0.1036
Mercury	-27586-06-12 23:02 J	-8354200.65	-8354200.54	-8354200.43	0.2680	0.1126
Mercury	-27579-06-05 16:33 J	-8351650.89	-8351650.81	-8351650.72	0.2685	0.1791
Mercury	-27576-12-13 18:43 J	-8350363.86	-8350363.72	-8350363.58	0.2651	0.0377
Mercury	-27573-06-14 19:26 J	-8349449.76	-8349449.69	-8349449.63	0.2678	0.2216
Mercury	-27566-06-08 12:14 J	-8346900.10	-8346899.99	-8346899.87	0.2683	0.0773
Mercury	-27563-12-16 19:40 J	-8345612.79	-8345612.68	-8345612.58	0.2653	0.1738
Venus	-27562-10-28 02:09 J	-8345297.50	-8345297.41	-8345297.32	0.2626	0.2140
Mercury	-27556-12-08 21:50 J	-8343063.67	-8343063.59	-8343063.52	0.2648	0.2224
Venus	-27554-10-25 16:19 J	-8342377.96	-8342377.82	-8342377.68	0.2626	0.1383
Mercury	-27553-06-10 08:09 J	-8342149.28	-8342149.16	-8342149.04	0.2682	0.0270
Mercury	-27546-06-04 02:09 J	-8339599.44	-8339599.41	-8339599.38	0.2687	0.2598
Mercury	-27543-12-11 23:16 J	-8338312.66	-8338312.53	-8338312.39	0.2650	0.0770
Mercury	-27540-06-13 04:19 J	-8337398.43	-8337398.32	-8337398.22	0.2680	0.1336
Mercury	-27533-06-05 21:35 J	-8334848.69	-8334848.60	-8334848.50	0.2685	0.1600
Mercury	-27530-12-15 00:28 J	-8333561.61	-8333561.48	-8333561.34	0.2651	0.0633
Mercury	-27527-06-16 00:28 J	-8332647.53	-8332647.48	-8332647.43	0.2678	0.2421
Mercury	-27520-06-08 17:16 J	-8330097.89	-8330097.78	-8330097.66	0.2683	0.0588
Mercury	-27517-12-17 01:26 J	-8328810.53	-8328810.44	-8328810.35	0.2653	0.1991
Mercury	-27510-12-10 03:35 J	-8326261.44	-8326261.35	-8326261.25	0.2648	0.1954

Mercury	-27507-06-11 13:11 J	-8325347.06	-8325346.95	-8325346.83	0.2681	0.0483
Mercury	-27500-06-04 07:11 J	-8322797.25	-8322797.20	-8322797.15	0.2686	0.2411
Mercury	-27497-12-12 05:16 J	-8321510.42	-8321510.28	-8321510.15	0.2650	0.0519
Mercury	-27494-06-14 09:21 J	-8320596.20	-8320596.11	-8320596.01	0.2680	0.1545
Mercury	-27487-06-07 02:38 J	-8318046.49	-8318046.39	-8318046.29	0.2685	0.1413
Mercury	-27484-12-15 06:14 J	-8316759.37	-8316759.24	-8316759.10	0.2652	0.0894
Mercury	-27481-06-16 05:45 J	-8315845.28	-8315845.26	-8315845.24	0.2678	0.2636
Mercury	-27474-06-09 22:33 J	-8313295.68	-8313295.56	-8313295.44	0.2683	0.0383
Mercury	-27471-12-18 07:11 J	-8312008.27	-8312008.20	-8312008.13	0.2654	0.2241
Mercury	-27464-12-10 09:35 J	-8309459.21	-8309459.10	-8309458.99	0.2648	0.1684
Mercury	-27461-06-11 18:28 J	-8308544.85	-8308544.73	-8308544.61	0.2681	0.0674
Mercury	-27454-06-05 12:14 J	-8305995.05	-8305994.99	-8305994.92	0.2686	0.2220
Mercury	-27451-12-13 11:02 J	-8304708.18	-8304708.04	-8304707.90	0.2650	0.0248
Mercury	-27448-06-14 14:38 J	-8303793.98	-8303793.89	-8303793.80	0.2679	0.1750
Mercury	-27441-06-07 07:55 J	-8301244.28	-8301244.17	-8301244.07	0.2684	0.1216
Mercury	-27438-12-16 11:59 J	-8299957.12	-8299957.00	-8299956.87	0.2652	0.1146
Mercury	-27428-06-10 03:35 J	-8296493.47	-8296493.35	-8296493.23	0.2683	0.0184
Mercury	-27425-12-18 12:57 J	-8295206.01	-8295205.96	-8295205.92	0.2654	0.2491
Mercury	-27418-12-11 15:21 J	-8292656.97	-8292656.86	-8292656.74	0.2649	0.1418
Mercury	-27415-06-12 23:31 J	-8291742.63	-8291742.52	-8291742.40	0.2681	0.0878
Venus	-27408-04-25 07:55 J	-8289234.33	-8289234.17	-8289234.02	0.2707	0.0254
Mercury	-27408-06-05 17:16 J	-8289192.85	-8289192.78	-8289192.70	0.2686	0.2037
Mercury	-27405-12-13 16:47 J	-8287905.94	-8287905.80	-8287905.66	0.2651	0.0077
Mercury	-27402-06-15 19:40 J	-8286991.76	-8286991.68	-8286991.60	0.2679	0.1960
Mercury	-27395-06-08 12:57 J	-8284442.07	-8284441.96	-8284441.85	0.2684	0.1020
Mercury	-27392-12-16 17:59 J	-8283154.87	-8283154.75	-8283154.64	0.2652	0.1403
Mercury	-27385-12-08 19:40 J	-8280605.70	-8280605.68	-8280605.67	0.2647	0.2620
Mercury	-27382-06-11 08:52 J	-8279691.25	-8279691.13	-8279691.02	0.2682	0.0098
Mercury	-27372-12-11 21:21 J	-8275854.74	-8275854.61	-8275854.48	0.2649	0.1146
Mercury	-27369-06-13 04:47 J	-8274940.41	-8274940.30	-8274940.19	0.2680	0.1081

Mercury	-27362-06-06 22:19 J	-8272390.65	-8272390.57	-8272390.48	0.2686	0.1844
Mercury	-27359-12-14 22:47 J	-8271103.69	-8271103.55	-8271103.41	0.2651	0.0282
Mercury	-27356-06-16 00:57 J	-8270189.53	-8270189.46	-8270189.39	0.2679	0.2166
Mercury	-27349-06-08 17:59 J	-8267639.86	-8267639.75	-8267639.64	0.2684	0.0827
Mercury	-27346-12-17 23:45 J	-8266352.62	-8266352.51	-8266352.40	0.2653	0.1657
Mercury	-27339-12-10 01:26 J	-8263803.50	-8263803.44	-8263803.37	0.2647	0.2347
Mercury	-27336-06-11 13:55 J	-8262889.04	-8262888.92	-8262888.80	0.2682	0.0222
Mercury	-27329-06-04 07:55 J	-8260339.18	-8260339.17	-8260339.15	0.2687	0.2650
Mercury	-27326-12-13 03:21 J	-8259052.50	-8259052.36	-8259052.23	0.2649	0.0886
Mercury	-27323-06-14 09:50 J	-8258138.19	-8258138.09	-8258137.98	0.2680	0.1289
Venus	-27319-10-28 02:38 J	-8256541.46	-8256541.39	-8256541.31	0.2626	0.2305
Mercury	-27316-06-07 03:21 J	-8255588.45	-8255588.36	-8255588.26	0.2685	0.1657
Mercury	-27313-12-15 04:33 J	-8254301.44	-8254301.31	-8254301.17	0.2651	0.0541
Venus	-27311-10-25 16:47 J	-8253621.95	-8253621.80	-8253621.66	0.2625	0.1217
Mercury	-27310-06-17 05:59 J	-8253387.30	-8253387.25	-8253387.19	0.2678	0.2379
Mercury	-27303-06-09 23:02 J	-8250837.65	-8250837.54	-8250837.42	0.2684	0.0634
Mercury	-27300-12-18 05:31 J	-8249550.36	-8249550.27	-8249550.18	0.2653	0.1915
Mercury	-27293-12-10 07:26 J	-8247001.27	-8247001.19	-8247001.10	0.2648	0.2074
Mercury	-27290-06-12 18:57 J	-8246086.83	-8246086.71	-8246086.59	0.2682	0.0422
Mercury	-27283-06-05 12:57 J	-8243537.00	-8243536.96	-8243536.91	0.2687	0.2464
Mercury	-27280-12-13 09:07 J	-8242250.26	-8242250.12	-8242249.98	0.2649	0.0614
Mercury	-27277-06-14 15:07 J	-8241335.97	-8241335.87	-8241335.77	0.2680	0.1493
Mercury	-27270-06-08 08:38 J	-8238786.24	-8238786.14	-8238786.04	0.2685	0.1459
Mercury	-27267-12-16 10:19 J	-8237499.20	-8237499.07	-8237498.93	0.2651	0.0802
Mercury	-27264-06-17 11:16 J	-8236585.06	-8236585.03	-8236585.00	0.2678	0.2587
Mercury	-27257-06-10 04:19 J	-8234035.44	-8234035.32	-8234035.21	0.2683	0.0433
Mercury	-27254-12-19 11:16 J	-8232748.11	-8232748.03	-8232747.95	0.2653	0.2166
Mercury	-27247-12-11 13:26 J	-8230199.04	-8230198.94	-8230198.84	0.2648	0.1804
Mercury	-27244-06-13 00:14 J	-8229284.61	-8229284.49	-8229284.38	0.2682	0.0631
Mercury	-27237-06-05 17:59 J	-8226734.81	-8226734.75	-8226734.69	0.2687	0.2278

Mercury	-27234-12-14 15:07 J	-8225448.01	-8225447.87	-8225447.73	0.2650	0.0354
Mercury	-27231-06-15 20:09 J	-8224533.75	-8224533.66	-8224533.57	0.2680	0.1699
Mercury	-27224-06-08 13:40 J	-8221984.04	-8221983.93	-8221983.83	0.2685	0.1267
Mercury	-27221-12-16 16:19 J	-8220696.95	-8220696.82	-8220696.70	0.2651	0.1065
Mercury	-27211-06-11 09:21 J	-8217233.23	-8217233.11	-8217232.99	0.2683	0.0230
Mercury	-27208-12-19 17:02 J	-8215945.84	-8215945.79	-8215945.74	0.2653	0.2420
Mercury	-27201-12-11 19:11 J	-8213396.81	-8213396.70	-8213396.58	0.2648	0.1538
Mercury	-27198-06-14 05:16 J	-8212482.39	-8212482.28	-8212482.17	0.2681	0.0828
Mercury	-27191-06-06 23:02 J	-8209932.61	-8209932.54	-8209932.46	0.2686	0.2089
Mercury	-27188-12-14 20:52 J	-8208645.77	-8208645.63	-8208645.49	0.2650	0.0082
Mercury	-27185-06-16 01:26 J	-8207731.53	-8207731.44	-8207731.36	0.2679	0.1910
Mercury	-27178-06-09 18:43 J	-8205181.83	-8205181.72	-8205181.61	0.2685	0.1070
Mercury	-27175-12-17 22:04 J	-8203894.70	-8203894.58	-8203894.46	0.2652	0.1319
Venus	-27165-04-25 10:04 J	-8200478.24	-8200478.08	-8200477.93	0.2708	0.0395
Mercury	-27165-06-11 14:23 J	-8200431.02	-8200430.90	-8200430.78	0.2683	0.0084
Mercury	-27155-12-13 01:11 J	-8196594.57	-8196594.45	-8196594.33	0.2648	0.1264
Mercury	-27152-06-14 10:19 J	-8195680.18	-8195680.07	-8195679.96	0.2681	0.1038
Mercury	-27145-06-07 04:19 J	-8193130.41	-8193130.32	-8193130.24	0.2686	0.1900
Mercury	-27142-12-16 02:38 J	-8191843.53	-8191843.39	-8191843.25	0.2650	0.0186
Mercury	-27139-06-17 06:28 J	-8190929.30	-8190929.23	-8190929.15	0.2679	0.2121
Mercury	-27132-06-09 23:45 J	-8188379.62	-8188379.51	-8188379.40	0.2685	0.0878
Mercury	-27129-12-18 03:50 J	-8187092.45	-8187092.34	-8187092.23	0.2652	0.1578
Mercury	-27122-12-11 05:16 J	-8184543.33	-8184543.28	-8184543.23	0.2647	0.2473
Mercury	-27119-06-12 19:40 J	-8183628.80	-8183628.68	-8183628.56	0.2683	0.0186
Mercury	-27109-12-13 07:11 J	-8179792.33	-8179792.20	-8179792.07	0.2649	0.0992
Mercury	-27106-06-15 15:35 J	-8178877.96	-8178877.85	-8178877.75	0.2681	0.1238
Mercury	-27099-06-08 09:21 J	-8176328.20	-8176328.11	-8176328.02	0.2686	0.1704
Mercury	-27096-12-16 08:38 J	-8175041.28	-8175041.14	-8175041.01	0.2650	0.0450
Mercury	-27093-06-17 11:45 J	-8174127.07	-8174127.01	-8174126.95	0.2679	0.2331
Mercury	-27086-06-11 05:02 J	-8171577.41	-8171577.29	-8171577.18	0.2684	0.0686

Mercury	-27083-12-19 09:35 J	-8170290.20	-8170290.10	-8170290.00	0.2652	0.1831
Venus	-27076-10-28 02:52 J	-8167785.43	-8167785.38	-8167785.32	0.2625	0.2465
Mercury	-27076-12-11 11:16 J	-8167741.11	-8167741.03	-8167740.95	0.2647	0.2198
Mercury	-27073-06-13 00:43 J	-8166826.59	-8166826.47	-8166826.35	0.2682	0.0371
Venus	-27068-10-25 17:16 J	-8164865.92	-8164865.78	-8164865.63	0.2624	0.1028
Mercury	-27066-06-06 18:57 J	-8164276.75	-8164276.71	-8164276.68	0.2687	0.2519
Mercury	-27063-12-14 12:57 J	-8162990.09	-8162989.96	-8162989.82	0.2649	0.0725
Mercury	-27060-06-15 20:38 J	-8162075.74	-8162075.64	-8162075.54	0.2681	0.1445
Mercury	-27053-06-08 14:23 J	-8159526.00	-8159525.90	-8159525.81	0.2686	0.1515
Mercury	-27050-12-17 14:23 J	-8158239.03	-8158238.90	-8158238.76	0.2651	0.0711
Mercury	-27047-06-18 16:47 J	-8157324.83	-8157324.80	-8157324.76	0.2679	0.2544
Mercury	-27040-06-11 10:04 J	-8154775.20	-8154775.08	-8154774.97	0.2684	0.0483
Mercury	-27037-12-19 15:21 J	-8153487.94	-8153487.86	-8153487.77	0.2652	0.2092
Mercury	-27030-12-12 17:16 J	-8150938.88	-8150938.78	-8150938.69	0.2647	0.1925
Mercury	-27027-06-14 05:45 J	-8150024.37	-8150024.26	-8150024.14	0.2682	0.0578
Mercury	-27020-06-06 23:59 J	-8147474.56	-8147474.50	-8147474.45	0.2687	0.2330
Mercury	-27017-12-14 18:57 J	-8146187.85	-8146187.71	-8146187.57	0.2649	0.0451
Mercury	-27014-06-17 01:55 J	-8145273.52	-8145273.42	-8145273.33	0.2680	0.1653
Mercury	-27007-06-09 19:26 J	-8142723.79	-8142723.69	-8142723.59	0.2686	0.1315
Mercury	-27004-12-17 20:09 J	-8141436.79	-8141436.66	-8141436.53	0.2651	0.0977

27TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 27th millennium BCE.

PLANET	MAX- TRANSIT	C	START	MAX	END	SUNRAD	DEPTH	S
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TIME

Mercury	-26994-06-12 15:07 J	-8137972.99	-8137972.87	-8137972.75	0.2684	0.0285
Mercury	-26991-12-20 21:07 J	-8136685.68	-8136685.62	-8136685.55	0.2653	0.2352
Mercury	-26984-12-12 23:02 J	-8134136.65	-8134136.54	-8134136.43	0.2647	0.1651
Mercury	-26981-06-14 11:02 J	-8133222.16	-8133222.04	-8133221.93	0.2682	0.0784
Mercury	-26974-06-08 05:02 J	-8130672.36	-8130672.29	-8130672.22	0.2687	0.2137
Mercury	-26971-12-16 00:43 J	-8129385.61	-8129385.47	-8129385.33	0.2649	0.0196
Mercury	-26968-06-17 06:57 J	-8128471.29	-8128471.21	-8128471.12	0.2680	0.1864
Mercury	-26961-06-10 00:28 J	-8125921.59	-8125921.48	-8125921.37	0.2685	0.1123
Mercury	-26958-12-19 02:09 J	-8124634.54	-8124634.41	-8124634.29	0.2651	0.1237
Mercury	-26948-06-12 20:09 J	-8121170.78	-8121170.66	-8121170.54	0.2684	0.0089
Mercury	-26945-12-21 02:52 J	-8119883.40	-8119883.38	-8119883.35	0.2653	0.2609
Mercury	-26938-12-14 05:02 J	-8117334.41	-8117334.29	-8117334.17	0.2648	0.1377
Mercury	-26935-06-15 16:04 J	-8116419.94	-8116419.83	-8116419.72	0.2682	0.0983
Mercury	-26928-06-08 10:04 J	-8113870.16	-8113870.08	-8113870.00	0.2687	0.1946
Mercury	-26925-12-16 06:43 J	-8112583.36	-8112583.22	-8112583.08	0.2649	0.0092
Venus	-26922-04-26 11:59 J	-8111722.15	-8111722.00	-8111721.84	0.2708	0.0529
Mercury	-26922-06-18 12:14 J	-8111669.07	-8111668.99	-8111668.92	0.2680	0.2071
Mercury	-26915-06-11 05:31 J	-8109119.38	-8109119.27	-8109119.16	0.2685	0.0927
Mercury	-26912-12-19 07:55 J	-8107832.29	-8107832.17	-8107832.06	0.2651	0.1496
Mercury	-26905-12-11 09:07 J	-8105283.14	-8105283.12	-8105283.10	0.2646	0.2608
Mercury	-26902-06-14 01:11 J	-8104368.56	-8104368.45	-8104368.33	0.2683	0.0153
Mercury	-26892-12-14 11:02 J	-8100532.17	-8100532.04	-8100531.91	0.2648	0.1105
Mercury	-26889-06-15 21:07 J	-8099617.72	-8099617.62	-8099617.51	0.2681	0.1194
Mercury	-26882-06-09 15:07 J	-8097067.96	-8097067.87	-8097067.78	0.2687	0.1757
Mercury	-26879-12-17 12:28 J	-8095781.12	-8095780.98	-8095780.84	0.2650	0.0357
Mercury	-26876-06-18 17:16 J	-8094866.84	-8094866.78	-8094866.72	0.2680	0.2284
Mercury	-26869-06-11 10:33 J	-8092317.17	-8092317.06	-8092316.94	0.2685	0.0736
Mercury	-26866-12-20 13:40 J	-8091030.03	-8091029.93	-8091029.82	0.2652	0.1759
Mercury	-26859-12-12 14:52 J	-8088480.94	-8088480.88	-8088480.81	0.2646	0.2329

Mercury	-26856-06-14 06:28 J	-8087566.35	-8087566.23	-8087566.11	0.2683	0.0327
Mercury	-26849-06-07 00:43 J	-8085016.50	-8085016.47	-8085016.44	0.2688	0.2572
Mercury	-26846-12-15 16:47 J	-8083729.93	-8083729.80	-8083729.66	0.2648	0.0836
Mercury	-26843-06-17 02:23 J	-8082815.50	-8082815.40	-8082815.30	0.2681	0.1398
Mercury	-26836-06-09 20:09 J	-8080265.75	-8080265.66	-8080265.56	0.2686	0.1561
Mercury	-26833-12-17 18:28 J	-8078978.87	-8078978.73	-8078978.60	0.2650	0.0619
Mercury	-26830-06-19 22:33 J	-8078064.60	-8078064.56	-8078064.52	0.2679	0.2497
Venus	-26825-10-25 18:14 J	-8076109.90	-8076109.74	-8076109.59	0.2624	0.0829
Mercury	-26823-06-12 15:50 J	-8075514.96	-8075514.84	-8075514.73	0.2684	0.0536
Mercury	-26820-12-20 19:26 J	-8074227.78	-8074227.69	-8074227.60	0.2652	0.2017
Mercury	-26813-12-12 20:52 J	-8071678.72	-8071678.63	-8071678.54	0.2647	0.2050
Mercury	-26810-06-15 11:31 J	-8070764.14	-8070764.02	-8070763.90	0.2683	0.0525
Mercury	-26803-06-08 05:45 J	-8068214.31	-8068214.26	-8068214.21	0.2688	0.2382
Mercury	-26800-12-15 22:47 J	-8066927.69	-8066927.55	-8066927.41	0.2648	0.0562
Mercury	-26797-06-17 07:26 J	-8066013.28	-8066013.19	-8066013.09	0.2681	0.1611
Mercury	-26790-06-11 01:11 J	-8063463.55	-8063463.45	-8063463.35	0.2686	0.1370
Mercury	-26787-12-19 00:14 J	-8062176.62	-8062176.49	-8062176.36	0.2650	0.0880
Mercury	-26777-06-12 20:52 J	-8058712.75	-8058712.63	-8058712.51	0.2684	0.0333
Mercury	-26774-12-22 01:11 J	-8057425.52	-8057425.45	-8057425.38	0.2652	0.2276
Mercury	-26767-12-14 02:52 J	-8054876.48	-8054876.38	-8054876.27	0.2647	0.1769
Mercury	-26764-06-15 16:33 J	-8053961.92	-8053961.81	-8053961.69	0.2682	0.0741
Mercury	-26757-06-08 10:47 J	-8051412.11	-8051412.05	-8051411.98	0.2688	0.2191
Mercury	-26754-12-17 04:47 J	-8050125.44	-8050125.30	-8050125.16	0.2649	0.0295
Mercury	-26751-06-18 12:43 J	-8049211.06	-8049210.97	-8049210.89	0.2681	0.1815
Mercury	-26744-06-11 06:14 J	-8046661.34	-8046661.24	-8046661.13	0.2686	0.1174
Mercury	-26741-12-19 05:59 J	-8045374.37	-8045374.25	-8045374.12	0.2651	0.1148
Mercury	-26731-06-14 01:55 J	-8041910.54	-8041910.42	-8041910.30	0.2684	0.0133
Mercury	-26728-12-22 06:57 J	-8040623.24	-8040623.21	-8040623.17	0.2653	0.2531
Mercury	-26721-12-14 08:52 J	-8038074.25	-8038074.13	-8038074.01	0.2647	0.1494
Mercury	-26718-06-16 21:50 J	-8037159.70	-8037159.59	-8037159.48	0.2682	0.0937

Mercury	-26711-06-09 15:50 J	-8034609.91	-8034609.84	-8034609.76	0.2687	0.2000
Mercury	-26708-12-17 10:33 J	-8033323.20	-8033323.06	-8033322.91	0.2649	0.0065
Mercury	-26705-06-18 17:45 J	-8032408.84	-8032408.76	-8032408.68	0.2680	0.2027
Mercury	-26698-06-12 11:16 J	-8029859.14	-8029859.03	-8029858.92	0.2686	0.0981
Mercury	-26695-12-20 11:59 J	-8028572.12	-8028572.00	-8028571.88	0.2651	0.1414
Mercury	-26685-06-14 06:57 J	-8025108.32	-8025108.21	-8025108.09	0.2684	0.0114
Venus	-26679-04-26 13:55 J	-8022966.07	-8022965.92	-8022965.77	0.2709	0.0631
Mercury	-26675-12-15 14:52 J	-8021272.01	-8021271.88	-8021271.76	0.2647	0.1218
Mercury	-26672-06-17 02:52 J	-8020357.49	-8020357.38	-8020357.27	0.2682	0.1143
Mercury	-26665-06-09 20:52 J	-8017807.71	-8017807.63	-8017807.54	0.2687	0.1808
Mercury	-26662-12-18 16:33 J	-8016520.95	-8016520.81	-8016520.67	0.2649	0.0259
Mercury	-26659-06-19 22:47 J	-8015606.61	-8015606.55	-8015606.48	0.2680	0.2238
Mercury	-26652-06-12 16:33 J	-8013056.93	-8013056.81	-8013056.70	0.2685	0.0781
Mercury	-26649-12-20 17:45 J	-8011769.87	-8011769.76	-8011769.65	0.2651	0.1677
Mercury	-26642-12-13 18:43 J	-8009220.77	-8009220.72	-8009220.67	0.2646	0.2457
Mercury	-26639-06-15 12:14 J	-8008306.11	-8008305.99	-8008305.88	0.2684	0.0283
Mercury	-26632-06-08 06:43 J	-8005756.24	-8005756.22	-8005756.20	0.2688	0.2624
Mercury	-26629-12-15 20:38 J	-8004469.77	-8004469.64	-8004469.50	0.2648	0.0944
Mercury	-26626-06-18 07:55 J	-8003555.27	-8003555.17	-8003555.06	0.2682	0.1353
Mercury	-26619-06-11 01:55 J	-8001005.51	-8001005.42	-8001005.32	0.2687	0.1614
Mercury	-26616-12-18 22:19 J	-7999718.71	-7999718.57	-7999718.43	0.2649	0.0522
Mercury	-26613-06-20 04:04 J	-7998804.38	-7998804.33	-7998804.28	0.2680	0.2450
Mercury	-26606-06-13 21:35 J	-7996254.72	-7996254.60	-7996254.49	0.2685	0.0582
Mercury	-26603-12-21 23:31 J	-7994967.61	-7994967.52	-7994967.42	0.2651	0.1940
Mercury	-26596-12-14 00:43 J	-7992418.55	-7992418.47	-7992418.39	0.2646	0.2173
Mercury	-26593-06-15 17:16 J	-7991503.90	-7991503.78	-7991503.66	0.2683	0.0482
Mercury	-26586-06-09 11:45 J	-7988954.06	-7988954.01	-7988953.97	0.2688	0.2434
Mercury	-26583-12-17 02:38 J	-7987667.53	-7987667.39	-7987667.25	0.2648	0.0669
Venus	-26582-10-26 18:57 J	-7987353.87	-7987353.71	-7987353.55	0.2623	0.0638
Mercury	-26580-06-18 13:11 J	-7986753.05	-7986752.95	-7986752.86	0.2681	0.1559

Mercury	-26573-06-11 06:57 J	-7984203.30	-7984203.21	-7984203.11	0.2687	0.1422
Mercury	-26570-12-20 04:04 J	-7982916.46	-7982916.33	-7982916.19	0.2650	0.0795
Mercury	-26567-06-21 09:07 J	-7982002.12	-7982002.12	-7982002.11	0.2680	0.2664
Mercury	-26560-06-14 02:38 J	-7979452.51	-7979452.39	-7979452.27	0.2685	0.0378
Mercury	-26557-12-22 05:16 J	-7978165.35	-7978165.28	-7978165.20	0.2652	0.2202
Mercury	-26550-12-15 06:43 J	-7975616.32	-7975616.22	-7975616.12	0.2646	0.1898
Mercury	-26547-06-16 22:19 J	-7974701.68	-7974701.57	-7974701.45	0.2683	0.0684
Mercury	-26540-06-09 16:47 J	-7972151.87	-7972151.80	-7972151.74	0.2688	0.2246
Mercury	-26537-12-17 08:38 J	-7970865.28	-7970865.14	-7970865.00	0.2648	0.0399
Mercury	-26534-06-19 18:14 J	-7969950.83	-7969950.74	-7969950.65	0.2681	0.1773
Mercury	-26527-06-12 11:59 J	-7967401.10	-7967401.00	-7967400.89	0.2686	0.1229
Mercury	-26524-12-20 10:04 J	-7966114.21	-7966114.08	-7966113.95	0.2650	0.1059
Mercury	-26514-06-15 07:40 J	-7962650.30	-7962650.18	-7962650.06	0.2685	0.0184
Mercury	-26511-12-23 11:16 J	-7961363.08	-7961363.03	-7961362.99	0.2652	0.2465
Mercury	-26504-12-15 12:43 J	-7958814.09	-7958813.97	-7958813.86	0.2647	0.1615
Mercury	-26501-06-17 03:35 J	-7957899.47	-7957899.35	-7957899.24	0.2683	0.0897
Mercury	-26494-06-10 21:35 J	-7955349.67	-7955349.60	-7955349.52	0.2688	0.2056
Mercury	-26491-12-18 14:23 J	-7954063.04	-7954062.90	-7954062.76	0.2648	0.0125
Mercury	-26488-06-19 23:31 J	-7953148.60	-7953148.52	-7953148.44	0.2681	0.1982
Mercury	-26481-06-12 17:16 J	-7950598.89	-7950598.78	-7950598.67	0.2686	0.1026
Mercury	-26478-12-21 15:50 J	-7949311.96	-7949311.84	-7949311.72	0.2650	0.1326
Mercury	-26468-06-15 12:43 J	-7945848.08	-7945847.97	-7945847.85	0.2684	0.0083
Mercury	-26458-12-16 18:28 J	-7942011.85	-7942011.73	-7942011.60	0.2647	0.1337
Mercury	-26455-06-18 08:38 J	-7941097.25	-7941097.14	-7941097.03	0.2683	0.1097
Mercury	-26448-06-11 02:52 J	-7938547.47	-7938547.38	-7938547.30	0.2688	0.1862
Mercury	-26445-12-18 20:23 J	-7937260.79	-7937260.65	-7937260.51	0.2649	0.0161
Mercury	-26442-06-21 04:33 J	-7936346.37	-7936346.31	-7936346.24	0.2681	0.2196
Venus	-26436-04-26 15:50 J	-7934209.99	-7934209.84	-7934209.69	0.2710	0.0749
Mercury	-26435-06-13 22:19 J	-7933796.68	-7933796.57	-7933796.46	0.2686	0.0833
Mercury	-26432-12-21 21:50 J	-7932509.71	-7932509.59	-7932509.48	0.2650	0.1595

Mercury	-26425-12-13 22:19 J	-7929960.59	-7929960.57	-7929960.54	0.2645	0.2583
Mercury	-26422-06-16 17:59 J	-7929045.87	-7929045.75	-7929045.64	0.2684	0.0245
Mercury	-26415-06-09 12:28 J	-7926495.99	-7926495.98	-7926495.97	0.2689	0.2674
Mercury	-26412-12-17 00:28 J	-7925209.61	-7925209.48	-7925209.35	0.2647	0.1055
Mercury	-26409-06-18 13:40 J	-7924295.03	-7924294.93	-7924294.82	0.2682	0.1307
Mercury	-26402-06-12 07:55 J	-7921745.26	-7921745.17	-7921745.08	0.2687	0.1665
Mercury	-26399-12-20 02:09 J	-7920458.55	-7920458.41	-7920458.27	0.2649	0.0431
Mercury	-26396-06-21 09:50 J	-7919544.15	-7919544.09	-7919544.04	0.2680	0.2405
Mercury	-26389-06-14 03:21 J	-7916994.48	-7916994.36	-7916994.25	0.2686	0.0629
Mercury	-26386-12-23 03:35 J	-7915707.45	-7915707.35	-7915707.25	0.2651	0.1862
Mercury	-26379-12-15 04:19 J	-7913158.39	-7913158.32	-7913158.25	0.2645	0.2302
Mercury	-26376-06-16 23:02 J	-7912243.66	-7912243.54	-7912243.43	0.2684	0.0435
Mercury	-26369-06-09 17:31 J	-7909693.81	-7909693.77	-7909693.73	0.2689	0.2486
Mercury	-26366-12-18 06:28 J	-7908407.37	-7908407.23	-7908407.09	0.2647	0.0777
Mercury	-26363-06-19 18:43 J	-7907492.81	-7907492.72	-7907492.62	0.2682	0.1516
Mercury	-26356-06-12 12:57 J	-7904943.06	-7904942.96	-7904942.86	0.2687	0.1469
Mercury	-26353-12-20 08:09 J	-7903656.30	-7903656.16	-7903656.02	0.2649	0.0703
Mercury	-26350-06-22 14:52 J	-7902741.90	-7902741.88	-7902741.86	0.2680	0.2622
Mercury	-26343-06-15 08:23 J	-7900192.27	-7900192.15	-7900192.03	0.2686	0.0427
Mercury	-26340-12-23 09:21 J	-7898905.19	-7898905.11	-7898905.02	0.2651	0.2128
Venus	-26339-10-26 20:09 J	-7898597.82	-7898597.66	-7898597.50	0.2623	0.0429
Mercury	-26333-12-15 10:19 J	-7896356.16	-7896356.07	-7896355.98	0.2646	0.2017
Mercury	-26330-06-18 04:04 J	-7895441.44	-7895441.33	-7895441.21	0.2684	0.0638
Mercury	-26323-06-10 22:33 J	-7892891.62	-7892891.56	-7892891.50	0.2689	0.2294
Mercury	-26320-12-18 12:28 J	-7891605.12	-7891604.98	-7891604.84	0.2647	0.0503
Mercury	-26317-06-19 23:59 J	-7890690.59	-7890690.50	-7890690.41	0.2682	0.1724
Mercury	-26310-06-13 17:59 J	-7888140.85	-7888140.75	-7888140.65	0.2687	0.1270
Mercury	-26307-12-21 13:55 J	-7886854.05	-7886853.92	-7886853.79	0.2649	0.0973
Mercury	-26297-06-15 13:26 J	-7883390.06	-7883389.94	-7883389.82	0.2685	0.0231
Mercury	-26294-12-24 15:21 J	-7882102.92	-7882102.86	-7882102.81	0.2651	0.2396

Mercury	-26287-12-16 16:19 J	-7879553.93	-7879553.82	-7879553.71	0.2646	0.1738
Mercury	-26284-06-18 09:07 J	-7878639.23	-7878639.12	-7878639.00	0.2683	0.0848
Mercury	-26277-06-11 03:35 J	-7876089.42	-7876089.35	-7876089.28	0.2688	0.2103
Mercury	-26274-12-19 18:14 J	-7874802.88	-7874802.74	-7874802.60	0.2648	0.0226
Mercury	-26271-06-21 05:02 J	-7873888.37	-7873888.29	-7873888.21	0.2682	0.1939
Mercury	-26264-06-13 23:02 J	-7871338.65	-7871338.54	-7871338.43	0.2687	0.1075
Mercury	-26261-12-21 19:55 J	-7870051.80	-7870051.67	-7870051.55	0.2650	0.1244
Mercury	-26251-06-16 18:28 J	-7866587.84	-7866587.73	-7866587.61	0.2685	0.0095
Mercury	-26241-12-16 22:19 J	-7862751.69	-7862751.57	-7862751.45	0.2646	0.1452
Mercury	-26238-06-19 14:23 J	-7861837.01	-7861836.90	-7861836.79	0.2683	0.1056
Mercury	-26231-06-12 08:38 J	-7859287.22	-7859287.14	-7859287.06	0.2688	0.1906
Mercury	-26228-12-20 00:14 J	-7858000.63	-7858000.49	-7858000.35	0.2648	0.0058
Mercury	-26225-06-21 10:19 J	-7857086.14	-7857086.07	-7857086.00	0.2681	0.2149
Mercury	-26218-06-15 04:04 J	-7854536.44	-7854536.33	-7854536.22	0.2686	0.0876
Mercury	-26215-12-23 01:40 J	-7853249.54	-7853249.43	-7853249.31	0.2650	0.1513
Mercury	-26205-06-16 23:45 J	-7849785.63	-7849785.51	-7849785.40	0.2685	0.0202
Mercury	-26195-12-18 04:19 J	-7845949.45	-7845949.32	-7845949.19	0.2646	0.1174
Venus	-26193-04-26 17:16 J	-7845453.93	-7845453.78	-7845453.63	0.2710	0.0841
Mercury	-26192-06-19 19:26 J	-7845034.79	-7845034.69	-7845034.59	0.2683	0.1259
Mercury	-26185-06-12 13:40 J	-7842485.02	-7842484.93	-7842484.84	0.2688	0.1715
Mercury	-26182-12-21 06:14 J	-7841198.39	-7841198.24	-7841198.10	0.2648	0.0342
Mercury	-26179-06-22 15:21 J	-7840283.91	-7840283.86	-7840283.80	0.2681	0.2366
Mercury	-26172-06-15 09:07 J	-7837734.23	-7837734.12	-7837734.01	0.2686	0.0674
Mercury	-26169-12-23 07:40 J	-7836447.29	-7836447.18	-7836447.08	0.2650	0.1782
Mercury	-26162-12-16 07:55 J	-7833898.22	-7833898.17	-7833898.11	0.2645	0.2432
Mercury	-26159-06-18 04:47 J	-7832983.42	-7832983.30	-7832983.18	0.2684	0.0387
Mercury	-26152-06-10 23:31 J	-7830433.56	-7830433.52	-7830433.49	0.2689	0.2539
Mercury	-26149-12-18 10:19 J	-7829147.21	-7829147.07	-7829146.94	0.2647	0.0887
Mercury	-26146-06-21 00:28 J	-7828232.58	-7828232.48	-7828232.38	0.2682	0.1473
Mercury	-26139-06-13 18:43 J	-7825682.81	-7825682.72	-7825682.62	0.2688	0.1518

Mercury	-26136-12-21 11:59 J	-7824396.14	-7824396.00	-7824395.86	0.2648	0.0605
Mercury	-26133-06-22 20:23 J	-7823481.68	-7823481.65	-7823481.62	0.2681	0.2577
Mercury	-26126-06-16 14:09 J	-7820932.02	-7820931.91	-7820931.79	0.2686	0.0477
Mercury	-26123-12-24 13:26 J	-7819645.03	-7819644.94	-7819644.85	0.2650	0.2050
Mercury	-26116-12-16 13:55 J	-7817096.00	-7817095.92	-7817095.83	0.2645	0.2144
Mercury	-26113-06-18 09:50 J	-7816181.20	-7816181.09	-7816180.97	0.2684	0.0592
Mercury	-26106-06-12 04:33 J	-7813631.37	-7813631.31	-7813631.26	0.2689	0.2346
Mercury	-26103-12-19 16:04 J	-7812344.96	-7812344.83	-7812344.69	0.2647	0.0613
Mercury	-26100-06-21 05:45 J	-7811430.36	-7811430.26	-7811430.17	0.2682	0.1683
Venus	-26096-10-26 21:07 J	-7809841.78	-7809841.62	-7809841.46	0.2622	0.0209
Mercury	-26093-06-13 23:45 J	-7808880.61	-7808880.51	-7808880.41	0.2688	0.1322
Mercury	-26090-12-22 17:59 J	-7807593.89	-7807593.75	-7807593.62	0.2649	0.0885
Mercury	-26080-06-16 19:11 J	-7804129.81	-7804129.70	-7804129.58	0.2686	0.0280
Mercury	-26077-12-24 19:11 J	-7802842.76	-7802842.70	-7802842.63	0.2651	0.2319
Mercury	-26070-12-17 20:09 J	-7800293.77	-7800293.66	-7800293.56	0.2645	0.1854
Mercury	-26067-06-19 14:52 J	-7799378.99	-7799378.88	-7799378.76	0.2684	0.0803
Mercury	-26060-06-12 09:35 J	-7796829.17	-7796829.10	-7796829.04	0.2689	0.2149
Mercury	-26057-12-19 22:04 J	-7795542.72	-7795542.58	-7795542.44	0.2647	0.0328
Mercury	-26054-06-22 10:47 J	-7794628.13	-7794628.05	-7794627.97	0.2682	0.1892
Mercury	-26047-06-15 04:47 J	-7792078.40	-7792078.30	-7792078.19	0.2687	0.1123
Mercury	-26044-12-22 23:45 J	-7790791.63	-7790791.51	-7790791.38	0.2649	0.1157
Mercury	-26034-06-18 00:28 J	-7787327.60	-7787327.48	-7787327.37	0.2686	0.0121
Mercury	-26031-12-26 00:57 J	-7786040.48	-7786040.46	-7786040.43	0.2651	0.2589
Mercury	-26024-12-18 01:55 J	-7783491.53	-7783491.42	-7783491.30	0.2645	0.1572
Mercury	-26021-06-19 19:55 J	-7782576.78	-7782576.67	-7782576.56	0.2684	0.1010
Mercury	-26014-06-13 14:38 J	-7780026.97	-7780026.89	-7780026.82	0.2689	0.1960
Mercury	-26011-12-21 04:04 J	-7778740.47	-7778740.33	-7778740.19	0.2647	0.0043
Mercury	-26008-06-22 15:50 J	-7777825.91	-7777825.84	-7777825.77	0.2682	0.2105
Mercury	-26001-06-15 09:50 J	-7775276.20	-7775276.09	-7775275.98	0.2687	0.0924

26TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 26th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-25998-12-24 05:45 J	-7773989.38	-7773989.26	-7773989.14	0.2649	0.1433		
Mercury	-25988-06-18 05:31 J	-7770525.39	-7770525.27	-7770525.15	0.2685	0.0142		
Mercury	-25978-12-19 07:55 J	-7766689.29	-7766689.17	-7766689.04	0.2646	0.1285		
Mercury	-25975-06-21 01:11 J	-7765774.56	-7765774.45	-7765774.35	0.2683	0.1217		
Mercury	-25968-06-13 19:40 J	-7763224.77	-7763224.68	-7763224.60	0.2689	0.1763		
Mercury	-25965-12-21 10:04 J	-7761938.23	-7761938.08	-7761937.94	0.2647	0.0244		
Mercury	-25962-06-23 21:07 J	-7761023.68	-7761023.62	-7761023.57	0.2682	0.2320		
Mercury	-25955-06-16 14:52 J	-7758473.99	-7758473.88	-7758473.76	0.2687	0.0729		
Mercury	-25952-12-24 11:31 J	-7757187.13	-7757187.02	-7757186.91	0.2649	0.1702		
Venus	-25950-04-27 18:43 J	-7756697.86	-7756697.72	-7756697.57	0.2711	0.0926		
Mercury	-25945-12-16 11:31 J	-7754638.05	-7754638.02	-7754637.98	0.2644	0.2562		
Venus	-25942-04-25 10:19 J	-7753778.10	-7753778.07	-7753778.05	0.2711	0.2655		
Mercury	-25942-06-19 10:33 J	-7753723.18	-7753723.06	-7753722.94	0.2685	0.0342		
Mercury	-25935-06-12 05:16 J	-7751173.30	-7751173.28	-7751173.25	0.2690	0.2587		
Mercury	-25932-12-19 13:55 J	-7749887.05	-7749886.92	-7749886.79	0.2646	0.1003		
Mercury	-25929-06-21 06:14 J	-7748972.34	-7748972.24	-7748972.14	0.2683	0.1429		
Mercury	-25922-06-15 00:43 J	-7746422.57	-7746422.47	-7746422.38	0.2688	0.1571		
Mercury	-25919-12-22 15:50 J	-7745135.98	-7745135.84	-7745135.70	0.2648	0.0513		
Mercury	-25916-06-24 02:09 J	-7744221.44	-7744221.41	-7744221.37	0.2681	0.2537		
Mercury	-25909-06-16 19:55 J	-7741671.78	-7741671.67	-7741671.55	0.2687	0.0531		

Mercury	-25906-12-25 17:16 J	-7740384.87	-7740384.78	-7740384.68	0.2650	0.1977
Mercury	-25899-12-17 17:45 J	-7737835.83	-7737835.76	-7737835.69	0.2644	0.2269
Mercury	-25896-06-19 15:35 J	-7736920.96	-7736920.85	-7736920.73	0.2685	0.0550
Mercury	-25889-06-12 10:19 J	-7734371.12	-7734371.07	-7734371.02	0.2690	0.2395
Mercury	-25886-12-20 19:55 J	-7733084.81	-7733084.67	-7733084.53	0.2646	0.0715
Mercury	-25883-06-22 11:16 J	-7732170.12	-7732170.03	-7732169.93	0.2683	0.1642
Mercury	-25876-06-15 05:45 J	-7729620.36	-7729620.26	-7729620.16	0.2688	0.1369
Mercury	-25873-12-22 21:50 J	-7728333.73	-7728333.59	-7728333.46	0.2648	0.0789
Mercury	-25863-06-18 01:11 J	-7724869.57	-7724869.45	-7724869.34	0.2686	0.0327
Mercury	-25860-12-25 23:16 J	-7723582.61	-7723582.53	-7723582.46	0.2650	0.2243
Venus	-25853-10-26 22:33 J	-7721085.72	-7721085.56	-7721085.40	0.2622	0.0023
Mercury	-25853-12-17 23:45 J	-7721033.61	-7721033.51	-7721033.42	0.2645	0.1976
Mercury	-25850-06-20 20:38 J	-7720118.75	-7720118.64	-7720118.52	0.2685	0.0756
Mercury	-25843-06-13 15:21 J	-7717568.92	-7717568.86	-7717568.79	0.2690	0.2203
Mercury	-25840-12-21 01:55 J	-7716282.56	-7716282.42	-7716282.28	0.2647	0.0431
Mercury	-25837-06-22 16:33 J	-7715367.90	-7715367.81	-7715367.73	0.2683	0.1851
Mercury	-25830-06-16 10:47 J	-7712818.16	-7712818.05	-7712817.95	0.2688	0.1175
Mercury	-25827-12-24 03:35 J	-7711531.48	-7711531.35	-7711531.22	0.2648	0.1071
Mercury	-25817-06-18 06:14 J	-7708067.36	-7708067.24	-7708067.12	0.2686	0.0122
Mercury	-25814-12-27 05:02 J	-7706780.33	-7706780.29	-7706780.25	0.2650	0.2514
Mercury	-25807-12-19 05:45 J	-7704231.37	-7704231.26	-7704231.15	0.2645	0.1687
Mercury	-25804-06-21 01:55 J	-7703316.53	-7703316.42	-7703316.31	0.2684	0.0968
Mercury	-25797-06-13 20:23 J	-7700766.72	-7700766.65	-7700766.57	0.2689	0.2007
Mercury	-25794-12-22 07:55 J	-7699480.31	-7699480.17	-7699480.03	0.2647	0.0147
Mercury	-25791-06-23 21:35 J	-7698565.67	-7698565.60	-7698565.52	0.2682	0.2065
Mercury	-25784-06-16 15:50 J	-7696015.95	-7696015.84	-7696015.73	0.2688	0.0972
Mercury	-25781-12-24 09:35 J	-7694729.22	-7694729.10	-7694728.98	0.2649	0.1343
Mercury	-25771-06-19 11:16 J	-7691265.15	-7691265.03	-7691264.91	0.2686	0.0099
Mercury	-25761-12-19 11:45 J	-7687429.13	-7687429.01	-7687428.89	0.2645	0.1399
Mercury	-25758-06-22 06:57 J	-7686514.32	-7686514.21	-7686514.11	0.2684	0.1176

Mercury	-25751-06-15 01:26 J	-7683964.52	-7683964.44	-7683964.35	0.2689	0.1811
Mercury	-25748-12-22 13:40 J	-7682678.07	-7682677.93	-7682677.78	0.2647	0.0158
Mercury	-25745-06-24 02:52 J	-7681763.44	-7681763.38	-7681763.32	0.2682	0.2283
Mercury	-25738-06-17 20:52 J	-7679213.74	-7679213.63	-7679213.52	0.2688	0.0772
Mercury	-25735-12-25 15:35 J	-7677926.96	-7677926.85	-7677926.74	0.2649	0.1627
Mercury	-25725-06-19 16:19 J	-7674462.94	-7674462.82	-7674462.70	0.2686	0.0297
Mercury	-25718-06-13 11:16 J	-7671913.05	-7671913.03	-7671913.01	0.2691	0.2637
Mercury	-25715-12-20 17:45 J	-7670626.89	-7670626.76	-7670626.63	0.2645	0.1110
Mercury	-25712-06-22 11:59 J	-7669712.10	-7669712.00	-7669711.90	0.2684	0.1383
Venus	-25707-04-27 20:23 J	-7667941.80	-7667941.65	-7667941.51	0.2711	0.1024
Mercury	-25705-06-15 06:28 J	-7667162.32	-7667162.23	-7667162.14	0.2689	0.1611
Mercury	-25702-12-23 19:40 J	-7665875.82	-7665875.68	-7665875.54	0.2647	0.0418
Venus	-25699-04-25 11:31 J	-7665022.07	-7665022.02	-7665021.98	0.2711	0.2592
Mercury	-25699-06-25 07:55 J	-7664961.21	-7664961.17	-7664961.13	0.2682	0.2494
Mercury	-25692-06-18 01:55 J	-7662411.54	-7662411.42	-7662411.31	0.2687	0.0566
Mercury	-25689-12-25 21:21 J	-7661124.71	-7661124.61	-7661124.51	0.2649	0.1896
Mercury	-25682-12-18 21:21 J	-7658575.67	-7658575.61	-7658575.55	0.2644	0.2396
Mercury	-25679-06-20 21:21 J	-7657660.72	-7657660.61	-7657660.49	0.2685	0.0505
Mercury	-25672-06-13 16:19 J	-7655110.87	-7655110.82	-7655110.77	0.2690	0.2442
Mercury	-25669-12-20 23:45 J	-7653824.65	-7653824.51	-7653824.38	0.2646	0.0827
Mercury	-25666-06-23 17:02 J	-7652909.88	-7652909.79	-7652909.69	0.2684	0.1598
Mercury	-25659-06-16 11:31 J	-7650360.12	-7650360.02	-7650359.92	0.2689	0.1417
Mercury	-25656-12-24 01:40 J	-7649073.57	-7649073.43	-7649073.29	0.2647	0.0701
Mercury	-25646-06-19 06:57 J	-7645609.33	-7645609.21	-7645609.09	0.2687	0.0361
Mercury	-25643-12-27 03:07 J	-7644322.44	-7644322.37	-7644322.29	0.2649	0.2177
Mercury	-25636-12-19 03:21 J	-7641773.45	-7641773.36	-7641773.28	0.2644	0.2107
Mercury	-25633-06-21 02:23 J	-7640858.51	-7640858.40	-7640858.28	0.2685	0.0722
Mercury	-25626-06-14 21:21 J	-7638308.67	-7638308.61	-7638308.55	0.2690	0.2251
Mercury	-25623-12-22 05:31 J	-7637022.41	-7637022.27	-7637022.12	0.2646	0.0544
Mercury	-25620-06-23 22:19 J	-7636107.66	-7636107.57	-7636107.49	0.2683	0.1812

Mercury	-25613-06-16 16:33 J	-7633557.91	-7633557.81	-7633557.71	0.2688	0.1214
Venus	-25610-10-27 23:59 J	-7632329.66	-7632329.50	-7632329.34	0.2621	0.0266
Mercury	-25610-12-25 07:40 J	-7632271.32	-7632271.18	-7632271.05	0.2648	0.0984
Mercury	-25600-06-19 11:59 J	-7628807.12	-7628807.00	-7628806.88	0.2687	0.0160
Mercury	-25597-12-27 09:07 J	-7627520.17	-7627520.12	-7627520.07	0.2650	0.2448
Mercury	-25590-12-20 09:21 J	-7624971.22	-7624971.11	-7624971.01	0.2644	0.1812
Mercury	-25587-06-22 07:40 J	-7624056.29	-7624056.18	-7624056.07	0.2685	0.0926
Mercury	-25580-06-15 02:23 J	-7621506.47	-7621506.40	-7621506.33	0.2690	0.2054
Mercury	-25577-12-22 11:31 J	-7620220.16	-7620220.02	-7620219.87	0.2646	0.0259
Mercury	-25574-06-25 03:21 J	-7619305.44	-7619305.36	-7619305.28	0.2683	0.2028
Mercury	-25567-06-17 21:35 J	-7616755.71	-7616755.60	-7616755.49	0.2688	0.1017
Mercury	-25564-12-25 13:26 J	-7615469.06	-7615468.94	-7615468.81	0.2648	0.1260
Mercury	-25554-06-20 17:02 J	-7612004.91	-7612004.79	-7612004.67	0.2687	0.0053
Mercury	-25544-12-20 15:21 J	-7608168.98	-7608168.86	-7608168.74	0.2645	0.1517
Mercury	-25541-06-22 12:43 J	-7607254.08	-7607253.97	-7607253.86	0.2685	0.1134
Mercury	-25534-06-16 07:26 J	-7604704.27	-7604704.19	-7604704.11	0.2690	0.1858
Mercury	-25531-12-23 17:31 J	-7603417.91	-7603417.77	-7603417.63	0.2646	0.0045
Mercury	-25528-06-25 08:23 J	-7602503.21	-7602503.15	-7602503.08	0.2683	0.2240
Mercury	-25521-06-18 02:38 J	-7599953.50	-7599953.39	-7599953.28	0.2688	0.0814
Mercury	-25518-12-26 19:26 J	-7598666.81	-7598666.69	-7598666.58	0.2648	0.1539
Mercury	-25508-06-20 22:04 J	-7595202.69	-7595202.58	-7595202.46	0.2686	0.0260
Mercury	-25501-06-13 17:16 J	-7592652.78	-7592652.78	-7592652.78	0.2691	0.2684
Mercury	-25498-12-21 21:21 J	-7591366.74	-7591366.61	-7591366.48	0.2645	0.1225
Mercury	-25495-06-23 17:45 J	-7590451.86	-7590451.76	-7590451.66	0.2684	0.1344
Mercury	-25488-06-16 12:28 J	-7587902.07	-7587901.98	-7587901.89	0.2690	0.1664
Mercury	-25485-12-23 23:31 J	-7586615.66	-7586615.52	-7586615.38	0.2647	0.0326
Mercury	-25482-06-26 13:40 J	-7585700.98	-7585700.93	-7585700.89	0.2682	0.2457
Mercury	-25475-06-19 07:40 J	-7583151.29	-7583151.18	-7583151.07	0.2688	0.0613
Mercury	-25472-12-27 01:11 J	-7581864.55	-7581864.45	-7581864.34	0.2648	0.1822
Mercury	-25465-12-19 00:57 J	-7579315.50	-7579315.46	-7579315.42	0.2643	0.2527

Venus	-25464-04-27 21:21 J	-7579185.75	-7579185.61	-7579185.46	0.2711	0.1069
Mercury	-25462-06-22 03:07 J	-7578400.48	-7578400.37	-7578400.25	0.2686	0.0474
Venus	-25456-04-25 12:28 J	-7576266.03	-7576265.98	-7576265.92	0.2712	0.2535
Mercury	-25455-06-14 22:19 J	-7575850.61	-7575850.57	-7575850.53	0.2691	0.2493
Mercury	-25452-12-22 03:21 J	-7574564.49	-7574564.36	-7574564.22	0.2645	0.0934
Mercury	-25449-06-23 22:47 J	-7573649.64	-7573649.55	-7573649.45	0.2684	0.1557
Mercury	-25442-06-17 17:31 J	-7571099.87	-7571099.77	-7571099.68	0.2689	0.1462
Mercury	-25439-12-25 05:31 J	-7569813.41	-7569813.27	-7569813.13	0.2647	0.0610
Mercury	-25436-06-26 18:43 J	-7568898.73	-7568898.72	-7568898.71	0.2682	0.2671
Mercury	-25429-06-19 12:43 J	-7566349.08	-7566348.97	-7566348.85	0.2688	0.0411
Mercury	-25426-12-28 07:11 J	-7565062.28	-7565062.20	-7565062.12	0.2649	0.2098
Mercury	-25419-12-20 06:57 J	-7562513.29	-7562513.21	-7562513.14	0.2643	0.2230
Mercury	-25416-06-22 08:23 J	-7561598.27	-7561598.15	-7561598.04	0.2686	0.0675
Mercury	-25409-06-15 03:21 J	-7559048.42	-7559048.36	-7559048.31	0.2691	0.2296
Mercury	-25406-12-23 09:21 J	-7557762.25	-7557762.11	-7557761.97	0.2645	0.0643
Mercury	-25403-06-25 04:04 J	-7556847.42	-7556847.33	-7556847.25	0.2684	0.1773
Mercury	-25396-06-17 22:33 J	-7554297.67	-7554297.56	-7554297.46	0.2689	0.1265
Mercury	-25393-12-25 11:31 J	-7553011.16	-7553011.02	-7553010.89	0.2647	0.0894
Mercury	-25383-06-20 17:45 J	-7549546.87	-7549546.76	-7549546.64	0.2687	0.0218
Mercury	-25380-12-28 12:57 J	-7548260.01	-7548259.96	-7548259.90	0.2649	0.2379
Mercury	-25373-12-20 12:57 J	-7545711.06	-7545710.96	-7545710.86	0.2644	0.1931
Mercury	-25370-06-23 13:26 J	-7544796.05	-7544795.94	-7544795.83	0.2686	0.0883
Venus	-25367-10-28 01:40 J	-7543573.59	-7543573.43	-7543573.28	0.2621	0.0505
Mercury	-25363-06-16 08:09 J	-7542246.23	-7542246.16	-7542246.08	0.2691	0.2104
Mercury	-25360-12-23 15:21 J	-7540960.00	-7540959.86	-7540959.72	0.2645	0.0353
Mercury	-25357-06-25 09:07 J	-7540045.20	-7540045.12	-7540045.04	0.2684	0.1981
Mercury	-25350-06-19 03:35 J	-7537495.46	-7537495.35	-7537495.25	0.2689	0.1060
Mercury	-25347-12-26 17:16 J	-7536208.90	-7536208.78	-7536208.65	0.2647	0.1177
Mercury	-25337-06-20 23:02 J	-7532744.66	-7532744.54	-7532744.43	0.2687	0.0100
Mercury	-25327-12-21 18:57 J	-7528908.82	-7528908.71	-7528908.60	0.2644	0.1639

Mercury	-25324-06-23 18:28 J	-7527993.84	-7527993.73	-7527993.62	0.2685	0.1091
Mercury	-25317-06-16 13:11 J	-7525444.03	-7525443.95	-7525443.87	0.2690	0.1907
Mercury	-25314-12-24 21:21 J	-7524157.75	-7524157.61	-7524157.47	0.2646	0.0063
Mercury	-25311-06-26 14:09 J	-7523242.97	-7523242.91	-7523242.84	0.2684	0.2201
Mercury	-25304-06-19 08:38 J	-7520693.25	-7520693.14	-7520693.03	0.2689	0.0862
Mercury	-25301-12-26 23:16 J	-7519406.65	-7519406.53	-7519406.41	0.2647	0.1460
Mercury	-25291-06-22 04:04 J	-7515942.45	-7515942.33	-7515942.22	0.2687	0.0227
Mercury	-25281-12-22 00:57 J	-7512106.58	-7512106.46	-7512106.33	0.2644	0.1344
Mercury	-25278-06-24 23:31 J	-7511191.62	-7511191.52	-7511191.42	0.2685	0.1305
Mercury	-25271-06-17 18:14 J	-7508641.83	-7508641.74	-7508641.65	0.2690	0.1708
Mercury	-25268-12-25 03:21 J	-7507355.51	-7507355.36	-7507355.22	0.2646	0.0229
Mercury	-25265-06-26 19:11 J	-7506440.74	-7506440.70	-7506440.65	0.2683	0.2418
Mercury	-25258-06-20 13:40 J	-7503891.05	-7503890.93	-7503890.82	0.2688	0.0655
Mercury	-25255-12-28 05:02 J	-7502604.39	-7502604.29	-7502604.18	0.2648	0.1741
Mercury	-25245-06-22 09:07 J	-7499140.24	-7499140.12	-7499140.01	0.2687	0.0424
Mercury	-25238-06-16 04:04 J	-7496590.36	-7496590.33	-7496590.29	0.2691	0.2543
Mercury	-25235-12-23 06:57 J	-7495304.34	-7495304.21	-7495304.07	0.2644	0.1048
Mercury	-25232-06-25 04:33 J	-7494389.40	-7494389.31	-7494389.21	0.2685	0.1518
Mercury	-25225-06-17 23:16 J	-7491839.62	-7491839.53	-7491839.43	0.2690	0.1509
Mercury	-25222-12-26 09:07 J	-7490553.26	-7490553.12	-7490552.97	0.2646	0.0517
Venus	-25221-04-27 22:47 J	-7490429.69	-7490429.55	-7490429.41	0.2712	0.1156
Mercury	-25219-06-28 00:28 J	-7489638.50	-7489638.48	-7489638.46	0.2683	0.2636
Venus	-25213-04-25 13:40 J	-7487509.99	-7487509.93	-7487509.87	0.2712	0.2491
Mercury	-25212-06-20 18:43 J	-7487088.84	-7487088.72	-7487088.61	0.2688	0.0458
Mercury	-25209-12-28 11:02 J	-7485802.13	-7485802.04	-7485801.95	0.2648	0.2019
Mercury	-25202-12-21 10:33 J	-7483253.12	-7483253.06	-7483253.00	0.2643	0.2351
Mercury	-25199-06-23 14:09 J	-7482338.03	-7482337.91	-7482337.80	0.2686	0.0632
Mercury	-25192-06-16 09:07 J	-7479788.17	-7479788.12	-7479788.06	0.2691	0.2346
Mercury	-25189-12-23 13:11 J	-7478502.09	-7478501.95	-7478501.82	0.2645	0.0754
Mercury	-25186-06-26 09:50 J	-7477587.18	-7477587.09	-7477587.01	0.2684	0.1731

Mercury	-25179-06-19 04:19 J	-7475037.42	-7475037.32	-7475037.22	0.2690	0.1308
Mercury	-25176-12-26 15:07 J	-7473751.00	-7473750.87	-7473750.73	0.2646	0.0802
Mercury	-25166-06-21 23:45 J	-7470286.63	-7470286.51	-7470286.40	0.2688	0.0255
Mercury	-25163-12-29 16:47 J	-7468999.86	-7468999.80	-7468999.73	0.2648	0.2299
Mercury	-25156-12-21 16:33 J	-7466450.90	-7466450.81	-7466450.72	0.2643	0.2056
Mercury	-25153-06-23 19:11 J	-7465535.81	-7465535.70	-7465535.59	0.2686	0.0837
Mercury	-25146-06-17 14:09 J	-7462985.97	-7462985.91	-7462985.84	0.2691	0.2149
Mercury	-25143-12-24 19:11 J	-7461699.85	-7461699.70	-7461699.56	0.2645	0.0463
Mercury	-25140-06-26 14:52 J	-7460784.96	-7460784.88	-7460784.80	0.2684	0.1945
Mercury	-25133-06-19 09:21 J	-7458235.21	-7458235.11	-7458235.00	0.2690	0.1107
Mercury	-25130-12-27 21:07 J	-7456948.75	-7456948.62	-7456948.49	0.2647	0.1091
Venus	-25124-10-28 03:21 J	-7454817.51	-7454817.36	-7454817.20	0.2621	0.0761
Mercury	-25120-06-22 04:47 J	-7453484.42	-7453484.30	-7453484.19	0.2688	0.0065
Mercury	-25117-12-29 22:47 J	-7452197.58	-7452197.55	-7452197.52	0.2649	0.2582
Venus	-25116-10-25 18:57 J	-7451897.75	-7451897.71	-7451897.68	0.2621	0.2552
Mercury	-25110-12-22 22:33 J	-7449648.66	-7449648.56	-7449648.45	0.2643	0.1755
Mercury	-25107-06-25 00:14 J	-7448733.60	-7448733.49	-7448733.38	0.2686	0.1049
Mercury	-25100-06-17 19:11 J	-7446183.78	-7446183.70	-7446183.62	0.2691	0.1951
Mercury	-25097-12-25 00:57 J	-7444897.60	-7444897.46	-7444897.31	0.2645	0.0180
Mercury	-25094-06-27 19:55 J	-7443982.74	-7443982.67	-7443982.60	0.2684	0.2159
Mercury	-25087-06-20 14:23 J	-7441433.01	-7441432.90	-7441432.79	0.2689	0.0902
Mercury	-25084-12-28 03:07 J	-7440146.49	-7440146.37	-7440146.25	0.2647	0.1374
Mercury	-25074-06-23 09:50 J	-7436682.21	-7436682.09	-7436681.98	0.2687	0.0173
Mercury	-25064-12-23 04:33 J	-7432846.43	-7432846.31	-7432846.19	0.2643	0.1460
Mercury	-25061-06-25 05:16 J	-7431931.38	-7431931.28	-7431931.17	0.2686	0.1261
Mercury	-25054-06-19 00:14 J	-7429381.58	-7429381.49	-7429381.40	0.2691	0.1751
Mercury	-25051-12-26 06:57 J	-7428095.35	-7428095.21	-7428095.06	0.2645	0.0133
Mercury	-25048-06-28 00:57 J	-7427180.51	-7427180.46	-7427180.40	0.2684	0.2380
Mercury	-25041-06-20 19:26 J	-7424630.80	-7424630.69	-7424630.58	0.2689	0.0700
Mercury	-25038-12-29 09:07 J	-7423344.23	-7423344.12	-7423344.01	0.2647	0.1661

Mercury	-25028-06-23 14:52 J	-7419880.00	-7419879.88	-7419879.76	0.2687	0.0379
Mercury	-25021-06-16 10:04 J	-7417330.10	-7417330.08	-7417330.05	0.2692	0.2588
Mercury	-25018-12-24 10:47 J	-7416044.18	-7416044.05	-7416043.92	0.2644	0.1163
Mercury	-25015-06-26 10:19 J	-7415129.16	-7415129.07	-7415128.97	0.2685	0.1481
Mercury	-25008-06-19 05:16 J	-7412579.37	-7412579.28	-7412579.19	0.2690	0.1552
Mercury	-25005-12-26 12:57 J	-7411293.10	-7411292.96	-7411292.82	0.2645	0.0415
Mercury	-25002-06-29 06:14 J	-7410378.27	-7410378.24	-7410378.22	0.2684	0.2595

25TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 25th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-24995-06-22 00:28 J	-7407828.59	-7407828.48	-7407828.36	0.2689	0.0495		
Mercury	-24992-12-29 14:52 J	-7406541.97	-7406541.88	-7406541.78	0.2647	0.1944		
Mercury	-24985-12-21 13:55 J	-7403992.96	-7403992.92	-7403992.87	0.2642	0.2487		
Mercury	-24982-06-24 19:55 J	-7403077.78	-7403077.67	-7403077.56	0.2687	0.0587		
Venus	-24978-04-28 23:31 J	-7401673.66	-7401673.52	-7401673.38	0.2712	0.1181		
Mercury	-24975-06-17 15:07 J	-7400527.92	-7400527.87	-7400527.82	0.2692	0.2393		
Mercury	-24972-12-24 16:33 J	-7399241.94	-7399241.81	-7399241.67	0.2644	0.0870		
Venus	-24970-04-26 14:23 J	-7398753.97	-7398753.90	-7398753.84	0.2712	0.2466		
Mercury	-24969-06-26 15:35 J	-7398326.94	-7398326.85	-7398326.76	0.2685	0.1692		
Mercury	-24962-06-20 10:19 J	-7395777.17	-7395777.07	-7395776.97	0.2690	0.1353		
Mercury	-24959-12-27 18:57 J	-7394490.85	-7394490.71	-7394490.57	0.2646	0.0707		
Mercury	-24949-06-22 05:31 J	-7391026.38	-7391026.27	-7391026.15	0.2689	0.0290		

Mercury	-24946-12-30 20:52 J	-7389739.71	-7389739.63	-7389739.56	0.2648	0.2226
Mercury	-24939-12-22 20:09 J	-7387190.74	-7387190.66	-7387190.58	0.2642	0.2182
Mercury	-24936-06-25 00:57 J	-7386275.57	-7386275.46	-7386275.35	0.2687	0.0800
Mercury	-24929-06-17 20:09 J	-7383725.72	-7383725.66	-7383725.60	0.2692	0.2197
Mercury	-24926-12-25 22:47 J	-7382439.70	-7382439.55	-7382439.41	0.2644	0.0574
Mercury	-24923-06-27 20:38 J	-7381524.72	-7381524.64	-7381524.56	0.2685	0.1907
Mercury	-24916-06-20 15:21 J	-7378974.97	-7378974.86	-7378974.76	0.2690	0.1151
Mercury	-24913-12-28 00:57 J	-7377688.59	-7377688.46	-7377688.33	0.2646	0.0996
Mercury	-24903-06-23 10:33 J	-7374224.18	-7374224.06	-7374223.94	0.2688	0.0086
Mercury	-24900-12-31 02:38 J	-7372937.43	-7372937.39	-7372937.34	0.2648	0.2510
Mercury	-24893-12-23 02:09 J	-7370388.51	-7370388.41	-7370388.31	0.2643	0.1880
Mercury	-24890-06-26 05:59 J	-7369473.36	-7369473.25	-7369473.14	0.2687	0.1010
Mercury	-24883-06-19 01:11 J	-7366923.53	-7366923.45	-7366923.38	0.2691	0.1999
Venus	-24881-10-28 05:02 J	-7366061.44	-7366061.29	-7366061.14	0.2620	0.1003
Mercury	-24880-12-26 04:47 J	-7365637.45	-7365637.30	-7365637.16	0.2644	0.0283
Mercury	-24877-06-28 01:40 J	-7364722.50	-7364722.43	-7364722.36	0.2685	0.2124
Venus	-24873-10-25 20:52 J	-7363141.71	-7363141.63	-7363141.55	0.2620	0.2281
Mercury	-24870-06-21 20:23 J	-7362172.76	-7362172.65	-7362172.55	0.2690	0.0954
Mercury	-24867-12-29 06:57 J	-7360886.34	-7360886.21	-7360886.09	0.2646	0.1289
Mercury	-24857-06-23 15:35 J	-7357421.97	-7357421.85	-7357421.73	0.2688	0.0128
Mercury	-24847-12-24 08:09 J	-7353586.27	-7353586.16	-7353586.04	0.2643	0.1575
Mercury	-24844-06-26 11:02 J	-7352671.14	-7352671.04	-7352670.93	0.2686	0.1229
Mercury	-24837-06-19 06:14 J	-7350121.33	-7350121.24	-7350121.16	0.2691	0.1797
Mercury	-24834-12-27 10:47 J	-7348835.20	-7348835.05	-7348834.91	0.2645	0.0052
Mercury	-24831-06-29 06:43 J	-7347920.27	-7347920.22	-7347920.16	0.2684	0.2339
Mercury	-24824-06-22 01:26 J	-7345370.56	-7345370.44	-7345370.33	0.2690	0.0749
Mercury	-24821-12-29 12:43 J	-7344084.08	-7344083.97	-7344083.85	0.2647	0.1579
Mercury	-24811-06-24 20:38 J	-7340619.75	-7340619.64	-7340619.52	0.2688	0.0338
Mercury	-24804-06-17 16:04 J	-7338069.85	-7338069.83	-7338069.81	0.2693	0.2635
Mercury	-24801-12-24 14:09 J	-7336784.03	-7336783.91	-7336783.78	0.2643	0.1281

Mercury	-24798-06-27 16:04 J	-7335868.92	-7335868.83	-7335868.73	0.2686	0.1437
Mercury	-24791-06-20 11:16 J	-7333319.13	-7333319.03	-7333318.94	0.2691	0.1601
Mercury	-24788-12-27 16:47 J	-7332032.95	-7332032.80	-7332032.66	0.2645	0.0326
Mercury	-24785-06-29 11:45 J	-7331118.04	-7331118.01	-7331117.97	0.2684	0.2561
Mercury	-24778-06-23 06:28 J	-7328568.35	-7328568.23	-7328568.12	0.2689	0.0543
Mercury	-24775-12-30 18:43 J	-7327281.82	-7327281.72	-7327281.62	0.2647	0.1867
Mercury	-24768-12-22 17:31 J	-7324732.79	-7324732.77	-7324732.76	0.2641	0.2620
Mercury	-24765-06-25 01:40 J	-7323817.54	-7323817.43	-7323817.31	0.2688	0.0555
Mercury	-24758-06-18 21:07 J	-7321267.67	-7321267.62	-7321267.57	0.2692	0.2440
Mercury	-24755-12-25 20:23 J	-7319981.79	-7319981.65	-7319981.52	0.2643	0.0977
Mercury	-24752-06-27 21:21 J	-7319066.70	-7319066.61	-7319066.52	0.2686	0.1652
Mercury	-24745-06-20 16:04 J	-7316516.92	-7316516.83	-7316516.73	0.2691	0.1400
Mercury	-24742-12-28 22:47 J	-7315230.69	-7315230.55	-7315230.41	0.2645	0.0619
Venus	-24735-04-29 00:28 J	-7312917.62	-7312917.48	-7312917.34	0.2713	0.1228
Mercury	-24732-06-23 11:31 J	-7311766.14	-7311766.02	-7311765.91	0.2689	0.0337
Mercury	-24729-12-31 00:43 J	-7310479.55	-7310479.47	-7310479.39	0.2647	0.2152
Venus	-24727-04-26 15:07 J	-7309997.94	-7309997.87	-7309997.81	0.2713	0.2439
Mercury	-24722-12-23 23:31 J	-7307930.59	-7307930.52	-7307930.45	0.2642	0.2315
Mercury	-24719-06-26 06:43 J	-7307015.33	-7307015.22	-7307015.10	0.2687	0.0765
Mercury	-24712-06-19 02:09 J	-7304465.47	-7304465.41	-7304465.35	0.2692	0.2243
Mercury	-24709-12-26 02:23 J	-7303179.54	-7303179.40	-7303179.26	0.2643	0.0683
Mercury	-24706-06-29 02:23 J	-7302264.48	-7302264.40	-7302264.32	0.2686	0.1868
Mercury	-24699-06-21 21:07 J	-7299714.72	-7299714.62	-7299714.51	0.2691	0.1198
Mercury	-24696-12-29 04:33 J	-7298428.44	-7298428.31	-7298428.17	0.2645	0.0912
Mercury	-24686-06-24 16:33 J	-7294963.93	-7294963.81	-7294963.70	0.2689	0.0146
Mercury	-24682-01-01 06:28 J	-7293677.28	-7293677.23	-7293677.17	0.2647	0.2440
Mercury	-24676-12-24 05:45 J	-7291128.36	-7291128.26	-7291128.17	0.2642	0.2007
Mercury	-24673-06-26 11:59 J	-7290213.11	-7290213.00	-7290212.89	0.2687	0.0976
Mercury	-24666-06-20 07:11 J	-7287663.28	-7287663.20	-7287663.13	0.2692	0.2044
Mercury	-24663-12-27 08:23 J	-7286377.30	-7286377.15	-7286377.01	0.2644	0.0380

Mercury	-24660-06-29 07:26 J	-7285462.26	-7285462.19	-7285462.12	0.2685	0.2085
Mercury	-24653-06-22 02:09 J	-7282912.51	-7282912.41	-7282912.30	0.2690	0.0994
Mercury	-24650-12-30 10:33 J	-7281626.19	-7281626.06	-7281625.93	0.2646	0.1197
Mercury	-24640-06-24 21:35 J	-7278161.72	-7278161.60	-7278161.49	0.2689	0.0106
Venus	-24638-10-29 07:11 J	-7277305.34	-7277305.20	-7277305.06	0.2620	0.1274
Venus	-24630-10-26 22:47 J	-7274385.65	-7274385.55	-7274385.44	0.2620	0.2004
Mercury	-24630-12-25 11:45 J	-7274326.12	-7274326.01	-7274325.90	0.2642	0.1702
Mercury	-24627-06-27 17:02 J	-7273410.90	-7273410.79	-7273410.69	0.2687	0.1186
Mercury	-24620-06-20 11:59 J	-7270861.08	-7270861.00	-7270860.91	0.2692	0.1849
Mercury	-24617-12-27 14:23 J	-7269575.05	-7269574.90	-7269574.76	0.2644	0.0082
Mercury	-24614-06-30 12:28 J	-7268660.04	-7268659.98	-7268659.92	0.2685	0.2302
Mercury	-24607-06-23 07:11 J	-7266110.31	-7266110.20	-7266110.09	0.2690	0.0788
Mercury	-24604-12-30 16:33 J	-7264823.93	-7264823.81	-7264823.69	0.2646	0.1492
Mercury	-24594-06-26 02:38 J	-7261359.51	-7261359.39	-7261359.28	0.2688	0.0301
Mercury	-24587-06-18 22:04 J	-7258809.58	-7258809.58	-7258809.58	0.2693	0.2686
Mercury	-24584-12-25 17:45 J	-7257523.88	-7257523.76	-7257523.63	0.2642	0.1393
Mercury	-24581-06-27 22:04 J	-7256608.68	-7256608.58	-7256608.48	0.2687	0.1398
Mercury	-24574-06-21 17:02 J	-7254058.88	-7254058.79	-7254058.70	0.2692	0.1646
Mercury	-24571-12-28 20:23 J	-7252772.79	-7252772.65	-7252772.51	0.2644	0.0223
Mercury	-24568-06-30 17:31 J	-7251857.80	-7251857.77	-7251857.73	0.2685	0.2522
Mercury	-24561-06-23 12:14 J	-7249308.10	-7249307.99	-7249307.87	0.2690	0.0583
Mercury	-24558-12-31 22:33 J	-7248021.67	-7248021.56	-7248021.46	0.2646	0.1781
Mercury	-24548-06-26 07:40 J	-7244557.30	-7244557.18	-7244557.07	0.2688	0.0510
Mercury	-24541-06-19 03:07 J	-7242007.41	-7242007.37	-7242007.33	0.2693	0.2486
Mercury	-24538-12-26 23:45 J	-7240721.64	-7240721.51	-7240721.37	0.2643	0.1095
Mercury	-24535-06-29 03:07 J	-7239806.47	-7239806.37	-7239806.28	0.2686	0.1613
Mercury	-24528-06-21 22:04 J	-7237256.67	-7237256.58	-7237256.48	0.2691	0.1444
Mercury	-24525-12-29 02:23 J	-7235970.54	-7235970.40	-7235970.26	0.2644	0.0519
Mercury	-24515-06-24 17:16 J	-7232505.89	-7232505.78	-7232505.66	0.2690	0.0376
Mercury	-24511-01-01 04:33 J	-7231219.40	-7231219.31	-7231219.23	0.2646	0.2077

Mercury	-24505-12-24 03:07 J	-7228670.43	-7228670.37	-7228670.32	0.2641	0.2438
Mercury	-24502-06-27 12:43 J	-7227755.09	-7227754.97	-7227754.86	0.2688	0.0719
Mercury	-24495-06-20 08:09 J	-7225205.22	-7225205.16	-7225205.10	0.2693	0.2288
Venus	-24492-04-29 00:57 J	-7224161.60	-7224161.46	-7224161.32	0.2713	0.1242
Mercury	-24492-12-27 05:59 J	-7223919.39	-7223919.25	-7223919.11	0.2643	0.0784
Mercury	-24489-06-29 08:09 J	-7223004.25	-7223004.16	-7223004.08	0.2686	0.1828
Venus	-24484-04-26 15:21 J	-7221241.92	-7221241.86	-7221241.79	0.2713	0.2451
Mercury	-24482-06-23 03:07 J	-7220454.47	-7220454.37	-7220454.27	0.2691	0.1237
Mercury	-24479-12-30 08:23 J	-7219168.29	-7219168.15	-7219168.01	0.2645	0.0814
Mercury	-24469-06-24 22:19 J	-7215703.68	-7215703.57	-7215703.45	0.2690	0.0171
Mercury	-24465-01-02 10:19 J	-7214417.13	-7214417.07	-7214417.00	0.2647	0.2365
Mercury	-24459-12-25 09:07 J	-7211868.20	-7211868.12	-7211868.03	0.2641	0.2129
Mercury	-24456-06-27 17:45 J	-7210952.87	-7210952.76	-7210952.65	0.2688	0.0931
Mercury	-24449-06-20 13:11 J	-7208403.03	-7208402.95	-7208402.88	0.2693	0.2092
Mercury	-24446-12-28 11:59 J	-7207117.14	-7207117.00	-7207116.86	0.2643	0.0485
Mercury	-24443-06-30 13:11 J	-7206202.02	-7206201.95	-7206201.87	0.2686	0.2043
Mercury	-24436-06-23 08:09 J	-7203652.27	-7203652.16	-7203652.05	0.2691	0.1034
Mercury	-24433-12-30 14:23 J	-7202366.03	-7202365.90	-7202365.77	0.2645	0.1115
Mercury	-24423-06-26 03:21 J	-7198901.47	-7198901.36	-7198901.24	0.2689	0.0059
Mercury	-24413-12-25 15:21 J	-7195065.97	-7195065.86	-7195065.76	0.2642	0.1826
Mercury	-24410-06-28 22:47 J	-7194150.66	-7194150.55	-7194150.45	0.2688	0.1144
Mercury	-24403-06-21 17:59 J	-7191600.83	-7191600.75	-7191600.67	0.2692	0.1891
Mercury	-24400-12-28 17:59 J	-7190314.89	-7190314.75	-7190314.61	0.2643	0.0179
Mercury	-24397-06-30 18:14 J	-7189399.80	-7189399.74	-7189399.68	0.2686	0.2266
Venus	-24395-10-29 09:07 J	-7188549.25	-7188549.12	-7188548.99	0.2620	0.1530
Mercury	-24390-06-24 13:11 J	-7186850.06	-7186849.95	-7186849.84	0.2691	0.0827
Venus	-24387-10-27 01:11 J	-7185629.57	-7185629.45	-7185629.33	0.2620	0.1722
Mercury	-24387-12-31 20:23 J	-7185563.77	-7185563.65	-7185563.53	0.2645	0.1408
Mercury	-24377-06-26 08:23 J	-7182099.27	-7182099.15	-7182099.03	0.2689	0.0254
Mercury	-24367-12-26 21:21 J	-7178263.73	-7178263.61	-7178263.49	0.2642	0.1517

Mercury	-24364-06-29 03:50 J	-7177348.44	-7177348.34	-7177348.24	0.2687	0.1360
Mercury	-24357-06-21 23:02 J	-7174798.63	-7174798.54	-7174798.45	0.2692	0.1689
Mercury	-24354-12-29 23:59 J	-7173512.65	-7173512.50	-7173512.36	0.2644	0.0116
Mercury	-24351-07-01 23:31 J	-7172597.56	-7172597.52	-7172597.48	0.2685	0.2487
Mercury	-24344-06-24 18:14 J	-7170047.85	-7170047.74	-7170047.63	0.2691	0.0626
Mercury	-24340-01-01 02:23 J	-7168761.51	-7168761.40	-7168761.30	0.2645	0.1705
Mercury	-24331-06-27 13:26 J	-7165297.05	-7165296.94	-7165296.82	0.2689	0.0466
Mercury	-24324-06-20 09:07 J	-7162747.16	-7162747.12	-7162747.09	0.2694	0.2535
Mercury	-24321-12-27 03:21 J	-7161461.49	-7161461.36	-7161461.23	0.2642	0.1205
Mercury	-24318-06-30 08:52 J	-7160546.22	-7160546.13	-7160546.03	0.2687	0.1576
Mercury	-24311-06-23 04:04 J	-7157996.42	-7157996.33	-7157996.23	0.2692	0.1483
Mercury	-24308-12-30 05:59 J	-7156710.39	-7156710.25	-7156710.11	0.2644	0.0419
Mercury	-24298-06-25 23:16 J	-7153245.65	-7153245.53	-7153245.42	0.2690	0.0419
Mercury	-24294-01-02 08:09 J	-7151959.25	-7151959.16	-7151959.06	0.2646	0.1992
Mercury	-24288-12-25 06:28 J	-7149410.26	-7149410.23	-7149410.20	0.2640	0.2567
Mercury	-24285-06-27 18:28 J	-7148494.84	-7148494.73	-7148494.62	0.2689	0.0677
Mercury	-24278-06-21 14:09 J	-7145944.97	-7145944.91	-7145944.86	0.2693	0.2334
Mercury	-24275-12-28 09:21 J	-7144659.24	-7144659.11	-7144658.97	0.2642	0.0902
Mercury	-24272-06-30 13:55 J	-7143744.00	-7143743.92	-7143743.83	0.2687	0.1791
Mercury	-24265-06-23 09:07 J	-7141194.22	-7141194.12	-7141194.02	0.2692	0.1286
Mercury	-24262-12-31 11:59 J	-7139908.14	-7139908.00	-7139907.86	0.2644	0.0724
Mercury	-24252-06-26 04:19 J	-7136443.44	-7136443.32	-7136443.21	0.2690	0.0223
Venus	-24249-04-29 01:26 J	-7135405.57	-7135405.44	-7135405.30	0.2713	0.1263
Mercury	-24248-01-02 14:09 J	-7135156.98	-7135156.91	-7135156.84	0.2646	0.2288
Mercury	-24242-12-26 12:28 J	-7132608.05	-7132607.98	-7132607.90	0.2641	0.2261
Venus	-24241-04-26 15:50 J	-7132485.90	-7132485.84	-7132485.77	0.2713	0.2439
Mercury	-24239-06-28 23:31 J	-7131692.63	-7131692.52	-7131692.41	0.2688	0.0893
Mercury	-24232-06-21 18:57 J	-7129142.77	-7129142.71	-7129142.64	0.2693	0.2138
Mercury	-24229-12-28 15:35 J	-7127856.99	-7127856.85	-7127856.71	0.2642	0.0589
Mercury	-24226-07-01 18:57 J	-7126941.78	-7126941.71	-7126941.63	0.2686	0.2011

Mercury	-24219-06-24 14:09 J	-7124392.02	-7124391.91	-7124391.81	0.2692	0.1079
Mercury	-24216-12-31 17:59 J	-7123105.88	-7123105.75	-7123105.62	0.2644	0.1023
Mercury	-24206-06-27 09:21 J	-7119641.23	-7119641.11	-7119641.00	0.2690	0.0096
Mercury	-24202-01-03 20:09 J	-7118354.69	-7118354.66	-7118354.63	0.2646	0.2580
Mercury	-24196-12-26 18:43 J	-7115805.82	-7115805.72	-7115805.62	0.2641	0.1944
Mercury	-24193-06-29 04:33 J	-7114890.41	-7114890.31	-7114890.20	0.2688	0.1105
Mercury	-24186-06-22 23:59 J	-7112340.58	-7112340.50	-7112340.42	0.2693	0.1933
Mercury	-24183-12-29 21:35 J	-7111054.75	-7111054.60	-7111054.46	0.2643	0.0288
Mercury	-24180-07-01 23:59 J	-7110139.56	-7110139.50	-7110139.43	0.2686	0.2233
Mercury	-24173-06-24 19:11 J	-7107589.81	-7107589.70	-7107589.60	0.2691	0.0878
Mercury	-24169-01-01 23:59 J	-7106303.62	-7106303.50	-7106303.37	0.2645	0.1323
Mercury	-24160-06-27 14:23 J	-7102839.02	-7102838.90	-7102838.79	0.2690	0.0233
Venus	-24152-10-29 11:31 J	-7099793.14	-7099793.02	-7099792.91	0.2620	0.1814
Mercury	-24150-12-28 00:43 J	-7099003.58	-7099003.47	-7099003.35	0.2641	0.1633
Mercury	-24147-06-30 09:35 J	-7098088.20	-7098088.10	-7098088.00	0.2688	0.1323
Venus	-24144-10-27 03:21 J	-7096873.49	-7096873.36	-7096873.22	0.2620	0.1434
Mercury	-24140-06-23 05:02 J	-7095538.38	-7095538.29	-7095538.20	0.2693	0.1730
Mercury	-24137-12-30 03:35 J	-7094252.49	-7094252.35	-7094252.20	0.2643	0.0034
Mercury	-24134-07-03 05:16 J	-7093337.33	-7093337.28	-7093337.24	0.2686	0.2448
Mercury	-24127-06-26 00:14 J	-7090787.61	-7090787.49	-7090787.38	0.2691	0.0669
Mercury	-24123-01-02 05:59 J	-7089501.36	-7089501.25	-7089501.14	0.2645	0.1618
Mercury	-24114-06-28 19:26 J	-7086036.81	-7086036.69	-7086036.58	0.2689	0.0431
Mercury	-24107-06-21 15:07 J	-7083486.90	-7083486.87	-7083486.84	0.2694	0.2576
Mercury	-24104-12-28 06:57 J	-7082201.34	-7082201.21	-7082201.09	0.2641	0.1323
Mercury	-24101-06-30 14:38 J	-7081285.98	-7081285.89	-7081285.79	0.2688	0.1540
Mercury	-24094-06-24 10:04 J	-7078736.18	-7078736.08	-7078735.99	0.2693	0.1530
Mercury	-24091-12-31 09:35 J	-7077450.24	-7077450.10	-7077449.95	0.2643	0.0331
Mercury	-24088-07-03 10:19 J	-7076535.08	-7076535.07	-7076535.06	0.2686	0.2670
Mercury	-24081-06-26 05:02 J	-7073985.40	-7073985.29	-7073985.17	0.2691	0.0466
Mercury	-24077-01-03 11:59 J	-7072699.10	-7072699.00	-7072698.90	0.2645	0.1920

Mercury	-24068-06-29 00:28 J	-7069234.60	-7069234.48	-7069234.37	0.2689	0.0645
Mercury	-24061-06-21 20:09 J	-7066684.71	-7066684.66	-7066684.61	0.2694	0.2382
Mercury	-24058-12-29 12:57 J	-7065399.09	-7065398.96	-7065398.82	0.2642	0.1014
Mercury	-24055-07-01 19:55 J	-7064483.76	-7064483.67	-7064483.59	0.2687	0.1759
Mercury	-24048-06-24 15:07 J	-7061933.97	-7061933.87	-7061933.77	0.2692	0.1326
Mercury	-24045-12-31 15:35 J	-7060647.99	-7060647.85	-7060647.71	0.2643	0.0631
Mercury	-24035-06-27 10:04 J	-7057183.19	-7057183.08	-7057182.96	0.2691	0.0261
Mercury	-24031-01-03 17:59 J	-7055896.83	-7055896.75	-7055896.68	0.2645	0.2212
Mercury	-24025-12-26 16:04 J	-7053347.89	-7053347.83	-7053347.77	0.2640	0.2388
Mercury	-24022-06-30 05:31 J	-7052432.38	-7052432.27	-7052432.16	0.2689	0.0855
Mercury	-24015-06-23 00:57 J	-7049882.52	-7049882.46	-7049882.39	0.2694	0.2181
Mercury	-24012-12-29 18:57 J	-7048596.85	-7048596.71	-7048596.57	0.2642	0.0707
Mercury	-24009-07-02 00:57 J	-7047681.54	-7047681.46	-7047681.39	0.2687	0.1979
Venus	-24006-04-30 01:55 J	-7046649.56	-7046649.42	-7046649.28	0.2713	0.1265
Mercury	-24002-06-25 19:55 J	-7045131.77	-7045131.67	-7045131.56	0.2692	0.1126

24TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 24th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-23998-01-01 21:35 J	-7043845.73	-7043845.60	-7043845.46	0.2644	0.0928		
Venus	-23998-04-27 16:19 J	-7043729.89	-7043729.82	-7043729.76	0.2713	0.2455		
Mercury	-23989-06-27 15:07 J	-7040380.98	-7040380.87	-7040380.75	0.2691	0.0072		
Mercury	-23985-01-04 23:59 J	-7039094.55	-7039094.50	-7039094.46	0.2645	0.2510		

Mercury	-23979-12-27 22:04 J	-7036545.67	-7036545.58	-7036545.49	0.2640	0.2069
Mercury	-23976-06-30 10:33 J	-7035630.17	-7035630.06	-7035629.96	0.2689	0.1072
Mercury	-23969-06-23 05:59 J	-7033080.33	-7033080.25	-7033080.17	0.2694	0.1979
Mercury	-23966-12-31 01:11 J	-7031794.60	-7031794.45	-7031794.31	0.2642	0.0394
Mercury	-23963-07-03 05:59 J	-7030879.32	-7030879.25	-7030879.19	0.2687	0.2194
Mercury	-23956-06-26 00:57 J	-7028329.56	-7028329.46	-7028329.35	0.2692	0.0916
Mercury	-23952-01-02 03:35 J	-7027043.47	-7027043.35	-7027043.22	0.2644	0.1233
Mercury	-23943-06-28 20:09 J	-7023578.77	-7023578.66	-7023578.54	0.2690	0.0186
Mercury	-23933-12-28 04:19 J	-7019743.43	-7019743.32	-7019743.21	0.2640	0.1754
Mercury	-23930-07-01 15:35 J	-7018827.96	-7018827.85	-7018827.75	0.2689	0.1286
Mercury	-23923-06-24 11:02 J	-7016278.13	-7016278.04	-7016277.96	0.2693	0.1775
Mercury	-23920-12-31 07:11 J	-7014992.34	-7014992.20	-7014992.05	0.2642	0.0085
Mercury	-23917-07-03 11:02 J	-7014077.09	-7014077.04	-7014076.99	0.2687	0.2415
Mercury	-23910-06-27 05:59 J	-7011527.36	-7011527.25	-7011527.14	0.2692	0.0710
Venus	-23909-10-29 13:55 J	-7011037.02	-7011036.92	-7011036.83	0.2620	0.2098
Mercury	-23906-01-03 09:50 J	-7010241.21	-7010241.09	-7010240.98	0.2644	0.1540
Venus	-23901-10-27 05:59 J	-7008117.40	-7008117.25	-7008117.11	0.2620	0.1129
Mercury	-23897-06-29 01:11 J	-7006776.56	-7006776.45	-7006776.33	0.2690	0.0392
Mercury	-23890-06-22 21:07 J	-7004226.64	-7004226.62	-7004226.60	0.2695	0.2623
Mercury	-23887-12-29 10:19 J	-7002941.19	-7002941.07	-7002940.94	0.2641	0.1441
Mercury	-23884-07-01 20:38 J	-7002025.74	-7002025.64	-7002025.55	0.2688	0.1503
Mercury	-23877-06-24 16:04 J	-6999475.92	-6999475.83	-6999475.74	0.2693	0.1572
Mercury	-23873-01-01 13:11 J	-6998190.09	-6998189.95	-6998189.80	0.2642	0.0235
Mercury	-23871-07-04 16:04 J	-6997274.85	-6997274.83	-6997274.81	0.2686	0.2635
Mercury	-23864-06-27 11:02 J	-6994725.15	-6994725.04	-6994724.92	0.2692	0.0496
Mercury	-23860-01-03 15:50 J	-6993438.95	-6993438.84	-6993438.74	0.2644	0.1840
Mercury	-23851-06-30 06:14 J	-6989974.35	-6989974.24	-6989974.13	0.2690	0.0600
Mercury	-23844-06-23 02:09 J	-6987424.46	-6987424.41	-6987424.37	0.2695	0.2424
Mercury	-23841-12-29 16:33 J	-6986138.95	-6986138.81	-6986138.68	0.2641	0.1126
Mercury	-23838-07-03 01:40 J	-6985223.52	-6985223.43	-6985223.34	0.2688	0.1720

Mercury	-23831-06-25 21:07 J	-6982673.72	-6982673.62	-6982673.53	0.2693	0.1367
Mercury	-23827-01-01 19:11 J	-6981387.84	-6981387.70	-6981387.55	0.2643	0.0535
Mercury	-23818-06-28 16:04 J	-6977922.94	-6977922.83	-6977922.71	0.2692	0.0287
Mercury	-23814-01-04 21:50 J	-6976636.68	-6976636.59	-6976636.51	0.2645	0.2141
Mercury	-23808-12-27 19:26 J	-6974087.73	-6974087.69	-6974087.65	0.2639	0.2515
Mercury	-23805-06-30 11:16 J	-6973172.14	-6973172.03	-6973171.92	0.2690	0.0819
Mercury	-23798-06-24 06:57 J	-6970622.27	-6970622.21	-6970622.14	0.2694	0.2225
Mercury	-23795-12-30 22:33 J	-6969336.70	-6969336.56	-6969336.42	0.2641	0.0812
Mercury	-23792-07-03 06:43 J	-6968421.30	-6968421.22	-6968421.14	0.2688	0.1938
Mercury	-23785-06-26 01:55 J	-6965871.52	-6965871.42	-6965871.31	0.2693	0.1164
Mercury	-23781-01-03 01:26 J	-6964585.58	-6964585.44	-6964585.31	0.2643	0.0845
Mercury	-23772-06-28 21:07 J	-6961120.74	-6961120.62	-6961120.50	0.2691	0.0073
Mercury	-23768-01-05 03:35 J	-6959834.40	-6959834.35	-6959834.29	0.2645	0.2438
Venus	-23763-04-30 02:09 J	-6957893.55	-6957893.41	-6957893.27	0.2713	0.1266
Mercury	-23762-12-29 01:26 J	-6957285.52	-6957285.44	-6957285.36	0.2640	0.2201
Mercury	-23759-07-01 16:19 J	-6956369.93	-6956369.82	-6956369.71	0.2689	0.1032
Venus	-23755-04-27 16:19 J	-6954973.88	-6954973.82	-6954973.76	0.2713	0.2482
Mercury	-23752-06-24 11:59 J	-6953820.07	-6953820.00	-6953819.92	0.2694	0.2021
Mercury	-23749-12-31 04:33 J	-6952534.45	-6952534.31	-6952534.16	0.2641	0.0505
Mercury	-23746-07-04 11:45 J	-6951619.08	-6951619.01	-6951618.94	0.2688	0.2160
Mercury	-23739-06-27 06:57 J	-6949069.31	-6949069.21	-6949069.10	0.2693	0.0956
Mercury	-23735-01-03 07:26 J	-6947783.32	-6947783.19	-6947783.06	0.2643	0.1148
Mercury	-23726-06-30 02:09 J	-6944318.53	-6944318.41	-6944318.30	0.2691	0.0141
Mercury	-23716-12-29 07:40 J	-6940483.28	-6940483.18	-6940483.08	0.2640	0.1880
Mercury	-23713-07-01 21:21 J	-6939567.71	-6939567.61	-6939567.51	0.2689	0.1252
Mercury	-23706-06-25 17:02 J	-6937017.87	-6937017.79	-6937017.71	0.2694	0.1818
Mercury	-23702-01-01 10:47 J	-6935732.20	-6935732.05	-6935731.91	0.2642	0.0196
Mercury	-23700-07-04 16:47 J	-6934816.85	-6934816.80	-6934816.75	0.2687	0.2381
Mercury	-23693-06-27 11:59 J	-6932267.11	-6932267.00	-6932266.89	0.2692	0.0743
Mercury	-23689-01-04 13:26 J	-6930981.06	-6930980.94	-6930980.82	0.2643	0.1451

Mercury	-23680-06-30 07:11 J	-6927516.32	-6927516.20	-6927516.09	0.2691	0.0353
Mercury	-23673-06-23 03:07 J	-6924966.38	-6924966.37	-6924966.36	0.2695	0.2669
Mercury	-23670-12-30 13:55 J	-6923681.04	-6923680.92	-6923680.81	0.2640	0.1561
Mercury	-23667-07-03 02:23 J	-6922765.50	-6922765.40	-6922765.30	0.2689	0.1466
Venus	-23666-10-30 16:04 J	-6922280.89	-6922280.83	-6922280.76	0.2619	0.2371
Mercury	-23660-06-25 22:04 J	-6920215.67	-6920215.58	-6920215.49	0.2694	0.1614
Venus	-23658-10-28 08:38 J	-6919361.30	-6919361.14	-6919360.99	0.2620	0.0840
Mercury	-23656-01-01 16:47 J	-6918929.95	-6918929.80	-6918929.65	0.2642	0.0124
Mercury	-23654-07-05 21:50 J	-6918014.61	-6918014.59	-6918014.56	0.2687	0.2607
Mercury	-23647-06-28 17:02 J	-6915464.90	-6915464.79	-6915464.68	0.2692	0.0537
Mercury	-23643-01-04 19:26 J	-6914178.80	-6914178.69	-6914178.58	0.2644	0.1755
Mercury	-23634-07-01 12:14 J	-6910714.11	-6910713.99	-6910713.88	0.2691	0.0568
Mercury	-23627-06-24 08:09 J	-6908164.20	-6908164.16	-6908164.12	0.2695	0.2467
Mercury	-23624-12-30 19:55 J	-6906878.80	-6906878.67	-6906878.54	0.2640	0.1238
Mercury	-23621-07-03 07:26 J	-6905963.28	-6905963.19	-6905963.10	0.2689	0.1688
Mercury	-23614-06-27 03:07 J	-6903413.47	-6903413.37	-6903413.28	0.2694	0.1409
Mercury	-23610-01-02 22:47 J	-6902127.69	-6902127.55	-6902127.40	0.2642	0.0445
Mercury	-23601-06-28 22:04 J	-6898662.70	-6898662.58	-6898662.47	0.2692	0.0330
Mercury	-23597-01-06 01:26 J	-6897376.53	-6897376.44	-6897376.35	0.2644	0.2061
Mercury	-23588-07-01 17:16 J	-6893911.89	-6893911.78	-6893911.67	0.2690	0.0782
Mercury	-23581-06-24 13:11 J	-6891362.01	-6891361.95	-6891361.89	0.2695	0.2265
Mercury	-23577-01-01 02:09 J	-6890076.55	-6890076.41	-6890076.28	0.2640	0.0925
Mercury	-23575-07-04 12:28 J	-6889161.06	-6889160.98	-6889160.90	0.2688	0.1904
Mercury	-23568-06-27 07:55 J	-6886611.27	-6886611.17	-6886611.06	0.2694	0.1203
Mercury	-23564-01-03 05:02 J	-6885325.43	-6885325.29	-6885325.15	0.2642	0.0753
Mercury	-23555-06-30 03:07 J	-6881860.49	-6881860.37	-6881860.26	0.2692	0.0138
Mercury	-23551-01-06 07:26 J	-6880574.25	-6880574.19	-6880574.13	0.2644	0.2365
Mercury	-23545-12-29 04:47 J	-6878025.36	-6878025.30	-6878025.23	0.2639	0.2325
Mercury	-23542-07-02 22:19 J	-6877109.68	-6877109.57	-6877109.47	0.2690	0.0998
Mercury	-23535-06-25 17:59 J	-6874559.82	-6874559.75	-6874559.68	0.2695	0.2063

Mercury	-23531-01-01 08:09 J	-6873274.30	-6873274.16	-6873274.02	0.2641	0.0605
Mercury	-23529-07-04 17:31 J	-6872358.84	-6872358.77	-6872358.70	0.2688	0.2125
Mercury	-23522-06-28 12:57 J	-6869809.07	-6869808.96	-6869808.85	0.2693	0.0992
Venus	-23520-04-30 02:23 J	-6869137.54	-6869137.40	-6869137.26	0.2714	0.1251
Mercury	-23518-01-04 11:02 J	-6868523.17	-6868523.04	-6868522.91	0.2642	0.1059
Venus	-23512-04-27 16:33 J	-6866217.87	-6866217.81	-6866217.75	0.2713	0.2493
Mercury	-23509-06-30 08:09 J	-6865058.28	-6865058.16	-6865058.05	0.2692	0.0132
Mercury	-23499-12-30 11:02 J	-6861223.13	-6861223.04	-6861222.94	0.2639	0.2004
Mercury	-23496-07-03 03:21 J	-6860307.47	-6860307.36	-6860307.26	0.2690	0.1213
Mercury	-23489-06-25 23:02 J	-6857757.62	-6857757.54	-6857757.46	0.2695	0.1859
Mercury	-23485-01-02 14:09 J	-6856472.05	-6856471.91	-6856471.76	0.2641	0.0299
Mercury	-23483-07-05 22:33 J	-6855556.61	-6855556.56	-6855556.50	0.2688	0.2349
Mercury	-23476-06-28 17:59 J	-6853006.86	-6853006.75	-6853006.64	0.2693	0.0784
Mercury	-23472-01-04 17:02 J	-6851720.91	-6851720.79	-6851720.67	0.2643	0.1366
Mercury	-23463-07-01 13:11 J	-6848256.07	-6848255.95	-6848255.84	0.2691	0.0331
Mercury	-23453-12-30 17:16 J	-6844420.89	-6844420.78	-6844420.67	0.2639	0.1678
Mercury	-23450-07-04 08:23 J	-6843505.25	-6843505.15	-6843505.05	0.2690	0.1436
Mercury	-23443-06-27 04:04 J	-6840955.42	-6840955.33	-6840955.24	0.2694	0.1653
Mercury	-23439-01-02 20:23 J	-6839669.80	-6839669.65	-6839669.50	0.2641	0.0031
Mercury	-23437-07-06 03:35 J	-6838754.38	-6838754.35	-6838754.31	0.2688	0.2571
Mercury	-23430-06-29 23:02 J	-6836204.65	-6836204.54	-6836204.43	0.2693	0.0576
Mercury	-23426-01-05 23:02 J	-6834918.65	-6834918.54	-6834918.43	0.2643	0.1674
Mercury	-23417-07-01 17:59 J	-6831453.86	-6831453.75	-6831453.63	0.2691	0.0540
Venus	-23415-10-28 11:16 J	-6830605.18	-6830605.03	-6830604.87	0.2619	0.0517
Mercury	-23410-06-25 14:09 J	-6828903.95	-6828903.91	-6828903.87	0.2696	0.2510
Mercury	-23407-12-31 23:16 J	-6827618.65	-6827618.53	-6827618.40	0.2640	0.1362
Mercury	-23404-07-04 13:26 J	-6826703.03	-6826702.94	-6826702.85	0.2689	0.1652
Mercury	-23397-06-27 08:52 J	-6824153.22	-6824153.13	-6824153.03	0.2694	0.1453
Mercury	-23393-01-04 02:23 J	-6822867.54	-6822867.40	-6822867.25	0.2641	0.0341
Mercury	-23384-06-30 04:04 J	-6819402.45	-6819402.33	-6819402.22	0.2693	0.0371

Mercury	-23380-01-06 05:02 J	-6818116.38	-6818116.29	-6818116.19	0.2643	0.1980
Mercury	-23371-07-02 23:02 J	-6814651.65	-6814651.54	-6814651.42	0.2691	0.0751
Mercury	-23364-06-25 19:11 J	-6812101.76	-6812101.70	-6812101.65	0.2696	0.2312
Mercury	-23360-01-01 05:31 J	-6810816.40	-6810816.27	-6810816.13	0.2640	0.1034
Mercury	-23358-07-05 18:28 J	-6809900.82	-6809900.73	-6809900.65	0.2689	0.1874
Mercury	-23351-06-28 13:55 J	-6807351.02	-6807350.92	-6807350.82	0.2694	0.1243
Mercury	-23347-01-04 08:23 J	-6806065.29	-6806065.15	-6806065.01	0.2642	0.0654
Mercury	-23338-07-01 09:07 J	-6802600.24	-6802600.12	-6802600.01	0.2692	0.0185
Mercury	-23334-01-07 11:02 J	-6801314.11	-6801314.04	-6801313.97	0.2643	0.2285
Mercury	-23328-12-30 08:23 J	-6798765.21	-6798765.15	-6798765.10	0.2638	0.2453
Mercury	-23325-07-03 04:04 J	-6797849.44	-6797849.33	-6797849.22	0.2691	0.0962
Mercury	-23318-06-26 23:59 J	-6795299.57	-6795299.50	-6795299.43	0.2695	0.2108
Mercury	-23314-01-02 11:45 J	-6794014.16	-6794014.01	-6794013.87	0.2640	0.0721
Mercury	-23312-07-05 23:31 J	-6793098.59	-6793098.52	-6793098.45	0.2689	0.2093
Mercury	-23305-06-28 18:57 J	-6790548.82	-6790548.71	-6790548.60	0.2694	0.1035
Mercury	-23301-01-05 14:38 J	-6789263.03	-6789262.89	-6789262.76	0.2642	0.0968
Mercury	-23292-07-01 13:55 J	-6785798.03	-6785797.92	-6785797.80	0.2692	0.0086
Mercury	-23288-01-07 17:02 J	-6784511.81	-6784511.79	-6784511.76	0.2644	0.2592
Mercury	-23282-12-31 14:23 J	-6781962.98	-6781962.90	-6781962.81	0.2638	0.2124
Mercury	-23279-07-04 09:07 J	-6781047.22	-6781047.12	-6781047.01	0.2690	0.1179
Venus	-23277-04-30 02:23 J	-6780381.54	-6780381.40	-6780381.26	0.2713	0.1222
Mercury	-23272-06-27 05:02 J	-6778497.37	-6778497.29	-6778497.21	0.2695	0.1899
Venus	-23269-04-27 16:04 J	-6777461.88	-6777461.83	-6777461.78	0.2713	0.2565
Mercury	-23268-01-02 17:45 J	-6777211.90	-6777211.76	-6777211.61	0.2640	0.0395
Mercury	-23266-07-07 04:33 J	-6776296.37	-6776296.31	-6776296.26	0.2689	0.2315
Mercury	-23259-06-29 23:59 J	-6773746.61	-6773746.50	-6773746.39	0.2694	0.0823
Mercury	-23255-01-05 20:38 J	-6772460.77	-6772460.64	-6772460.51	0.2642	0.1278
Mercury	-23246-07-02 18:57 J	-6768995.82	-6768995.71	-6768995.59	0.2692	0.0279
Mercury	-23236-12-31 20:38 J	-6765160.75	-6765160.64	-6765160.53	0.2639	0.1801
Mercury	-23233-07-04 14:09 J	-6764245.01	-6764244.91	-6764244.81	0.2690	0.1394

Mercury	-23226-06-28 10:04 J	-6761695.17	-6761695.08	-6761694.99	0.2695	0.1697
Mercury	-23222-01-03 23:45 J	-6760409.65	-6760409.51	-6760409.36	0.2640	0.0098
Mercury	-23220-07-07 09:35 J	-6759494.14	-6759494.10	-6759494.07	0.2688	0.2536
Mercury	-23213-06-30 05:02 J	-6756944.40	-6756944.29	-6756944.18	0.2694	0.0615
Mercury	-23209-01-07 02:38 J	-6755658.50	-6755658.39	-6755658.27	0.2642	0.1594
Mercury	-23200-07-02 23:59 J	-6752193.61	-6752193.50	-6752193.38	0.2692	0.0494
Mercury	-23193-06-25 20:09 J	-6749643.69	-6749643.66	-6749643.63	0.2696	0.2557
Mercury	-23189-01-02 02:52 J	-6748358.51	-6748358.38	-6748358.26	0.2639	0.1477
Mercury	-23187-07-05 19:11 J	-6747442.79	-6747442.70	-6747442.61	0.2690	0.1617
Mercury	-23180-06-28 15:07 J	-6744892.97	-6744892.87	-6744892.78	0.2695	0.1492
Mercury	-23176-01-04 05:59 J	-6743607.40	-6743607.25	-6743607.11	0.2641	0.0246
Venus	-23172-10-28 14:09 J	-6741849.07	-6741848.91	-6741848.75	0.2620	0.0225
Mercury	-23167-07-01 10:04 J	-6740142.20	-6740142.08	-6740141.97	0.2693	0.0412
Mercury	-23163-01-07 08:38 J	-6738856.24	-6738856.14	-6738856.04	0.2642	0.1901
Mercury	-23154-07-04 05:02 J	-6735391.40	-6735391.29	-6735391.18	0.2692	0.0709
Mercury	-23147-06-27 01:11 J	-6732841.50	-6732841.45	-6732841.40	0.2696	0.2351
Mercury	-23143-01-02 08:52 J	-6731556.26	-6731556.13	-6731556.00	0.2639	0.1157
Mercury	-23141-07-06 00:14 J	-6730640.57	-6730640.49	-6730640.40	0.2690	0.1839
Mercury	-23134-06-29 19:55 J	-6728090.77	-6728090.67	-6728090.57	0.2695	0.1284
Mercury	-23130-01-05 12:00 J	-6726805.14	-6726805.00	-6726804.86	0.2641	0.0555
Mercury	-23121-07-01 14:52 J	-6723339.99	-6723339.88	-6723339.76	0.2693	0.0198
Mercury	-23117-01-08 14:38 J	-6722053.96	-6722053.89	-6722053.81	0.2643	0.2215
Mercury	-23111-12-31 11:31 J	-6719505.04	-6719505.02	-6719504.99	0.2638	0.2586
Mercury	-23108-07-04 10:04 J	-6718589.19	-6718589.08	-6718588.97	0.2691	0.0926
Mercury	-23101-06-27 06:00 J	-6716039.31	-6716039.25	-6716039.18	0.2696	0.2151
Mercury	-23097-01-03 15:07 J	-6714754.01	-6714753.87	-6714753.73	0.2639	0.0832
Mercury	-23095-07-07 05:16 J	-6713838.35	-6713838.28	-6713838.20	0.2690	0.2063
Mercury	-23088-06-30 00:57 J	-6711288.56	-6711288.46	-6711288.35	0.2694	0.1071
Mercury	-23084-01-05 18:00 J	-6710002.88	-6710002.75	-6710002.61	0.2641	0.0871
Mercury	-23075-07-02 19:55 J	-6706537.78	-6706537.67	-6706537.55	0.2693	0.0038

Mercury	-23071-01-08 20:38 J	-6705251.68	-6705251.64	-6705251.60	0.2643	0.2520
Mercury	-23065-12-31 17:45 J	-6702702.84	-6702702.76	-6702702.69	0.2638	0.2254
Mercury	-23062-07-05 15:07 J	-6701786.98	-6701786.87	-6701786.77	0.2691	0.1144
Mercury	-23055-06-28 11:02 J	-6699237.12	-6699237.04	-6699236.96	0.2696	0.1945
Mercury	-23051-01-03 21:07 J	-6697951.76	-6697951.62	-6697951.47	0.2640	0.0510
Mercury	-23049-07-07 10:19 J	-6697036.13	-6697036.07	-6697036.01	0.2689	0.2281
Mercury	-23042-07-01 06:00 J	-6694486.36	-6694486.25	-6694486.14	0.2694	0.0866
Mercury	-23038-01-07 00:14 J	-6693200.62	-6693200.49	-6693200.36	0.2641	0.1191
Venus	-23034-05-01 02:09 J	-6691625.55	-6691625.41	-6691625.27	0.2714	0.1187
Mercury	-23029-07-03 00:57 J	-6689735.58	-6689735.46	-6689735.35	0.2693	0.0242
Venus	-23026-04-28 16:04 J	-6688705.87	-6688705.83	-6688705.79	0.2713	0.2594
Mercury	-23018-01-02 00:00 J	-6685900.60	-6685900.50	-6685900.40	0.2638	0.1927
Mercury	-23016-07-05 20:09 J	-6684984.76	-6684984.66	-6684984.56	0.2691	0.1363
Mercury	-23009-06-28 16:04 J	-6682434.92	-6682434.83	-6682434.75	0.2696	0.1739
Mercury	-23005-01-05 03:21 J	-6681149.51	-6681149.36	-6681149.22	0.2640	0.0185
Mercury	-23003-07-08 15:21 J	-6680233.90	-6680233.86	-6680233.82	0.2689	0.2507

23RD MILLENNIUM BCE

This is a list of transits visible from Earth in the 23rd millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-22996-07-01 11:02 J	-6677684.16	-6677684.04	-6677683.93	0.2694	0.0661		
Mercury	-22992-01-07 06:14 J	-6676398.36	-6676398.24	-6676398.12	0.2642	0.1503		
Mercury	-22983-07-04 06:00 J	-6672933.37	-6672933.25	-6672933.14	0.2692	0.0457		

Mercury	-22976-06-27 02:09 J	-6670383.43	-6670383.41	-6670383.38	0.2697	0.2598
Mercury	-22972-01-02 06:00 J	-6669098.36	-6669098.25	-6669098.13	0.2638	0.1600
Mercury	-22970-07-07 01:11 J	-6668182.55	-6668182.45	-6668182.36	0.2691	0.1584
Mercury	-22963-06-29 21:07 J	-6665632.72	-6665632.62	-6665632.53	0.2696	0.1532
Mercury	-22959-01-05 09:21 J	-6664347.25	-6664347.11	-6664346.96	0.2640	0.0141
Mercury	-22950-07-02 15:50 J	-6660881.95	-6660881.84	-6660881.72	0.2694	0.0445
Mercury	-22946-01-08 12:14 J	-6659596.09	-6659595.99	-6659595.88	0.2642	0.1824
Mercury	-22937-07-04 11:02 J	-6656131.16	-6656131.04	-6656130.93	0.2692	0.0676
Mercury	-22930-06-28 07:11 J	-6653581.25	-6653581.20	-6653581.15	0.2697	0.2395
Venus	-22929-10-28 17:02 J	-6653092.95	-6653092.79	-6653092.63	0.2619	0.0110
Mercury	-22926-01-03 12:14 J	-6652296.12	-6652295.99	-6652295.86	0.2638	0.1267
Mercury	-22924-07-07 06:14 J	-6651380.33	-6651380.24	-6651380.16	0.2690	0.1805
Mercury	-22917-06-30 01:55 J	-6648830.52	-6648830.42	-6648830.32	0.2695	0.1320
Mercury	-22913-01-06 15:36 J	-6647545.00	-6647544.85	-6647544.71	0.2640	0.0463
Mercury	-22904-07-02 20:52 J	-6644079.74	-6644079.63	-6644079.51	0.2694	0.0229
Mercury	-22900-01-08 18:14 J	-6642793.82	-6642793.74	-6642793.65	0.2642	0.2135
Mercury	-22891-07-05 16:04 J	-6639328.94	-6639328.83	-6639328.72	0.2692	0.0893
Mercury	-22884-06-28 12:14 J	-6636779.06	-6636778.99	-6636778.93	0.2697	0.2188
Mercury	-22880-01-03 18:28 J	-6635493.87	-6635493.73	-6635493.59	0.2639	0.0944
Mercury	-22878-07-08 11:16 J	-6634578.11	-6634578.03	-6634577.96	0.2690	0.2026
Mercury	-22871-07-01 06:57 J	-6632028.31	-6632028.21	-6632028.11	0.2695	0.1113
Mercury	-22867-01-06 21:36 J	-6630742.74	-6630742.60	-6630742.46	0.2640	0.0784
Mercury	-22858-07-04 01:55 J	-6627277.53	-6627277.42	-6627277.31	0.2694	0.0009
Mercury	-22854-01-10 00:28 J	-6625991.53	-6625991.48	-6625991.43	0.2642	0.2449
Mercury	-22847-01-01 20:52 J	-6623442.69	-6623442.63	-6623442.57	0.2637	0.2392
Mercury	-22845-07-05 21:07 J	-6622526.73	-6622526.62	-6622526.52	0.2692	0.1114
Mercury	-22838-06-29 17:02 J	-6619976.86	-6619976.79	-6619976.71	0.2697	0.1988
Mercury	-22834-01-05 00:28 J	-6618691.62	-6618691.48	-6618691.33	0.2639	0.0618
Mercury	-22832-07-08 16:19 J	-6617775.88	-6617775.82	-6617775.76	0.2690	0.2250
Mercury	-22825-07-01 12:00 J	-6615226.11	-6615226.00	-6615225.90	0.2695	0.0902

Mercury	-22821-01-08 03:36 J	-6613940.48	-6613940.35	-6613940.21	0.2641	0.1104
Mercury	-22812-07-04 06:57 J	-6610475.33	-6610475.21	-6610475.10	0.2693	0.0207
Mercury	-22801-01-03 03:07 J	-6606640.46	-6606640.37	-6606640.28	0.2637	0.2056
Mercury	-22799-07-07 01:55 J	-6605724.52	-6605724.42	-6605724.32	0.2692	0.1333
Mercury	-22792-06-29 22:04 J	-6603174.66	-6603174.58	-6603174.50	0.2696	0.1777
Venus	-22791-05-01 01:55 J	-6602869.56	-6602869.42	-6602869.27	0.2713	0.1138
Mercury	-22788-01-05 06:43 J	-6601889.37	-6601889.22	-6601889.08	0.2639	0.0296
Mercury	-22786-07-09 21:21 J	-6600973.66	-6600973.61	-6600973.57	0.2690	0.2477
Venus	-22783-04-28 15:21 J	-6599949.88	-6599949.86	-6599949.84	0.2713	0.2681
Mercury	-22779-07-02 16:48 J	-6598423.91	-6598423.80	-6598423.68	0.2695	0.0700
Mercury	-22775-01-08 09:50 J	-6597138.22	-6597138.09	-6597137.97	0.2641	0.1417
Mercury	-22766-07-05 12:00 J	-6593673.12	-6593673.00	-6593672.89	0.2693	0.0428
Mercury	-22759-06-28 08:23 J	-6591123.17	-6591123.15	-6591123.13	0.2698	0.2645
Mercury	-22755-01-03 09:21 J	-6589838.22	-6589838.11	-6589838.00	0.2638	0.1720
Mercury	-22753-07-07 06:57 J	-6588922.30	-6588922.21	-6588922.11	0.2691	0.1552
Mercury	-22746-07-01 03:07 J	-6586372.47	-6586372.37	-6586372.28	0.2696	0.1572
Mercury	-22742-01-06 12:43 J	-6585087.11	-6585086.97	-6585086.82	0.2639	0.0091
Mercury	-22733-07-02 21:50 J	-6581621.70	-6581621.59	-6581621.47	0.2695	0.0481
Mercury	-22729-01-09 15:50 J	-6580335.95	-6580335.84	-6580335.73	0.2641	0.1732
Mercury	-22720-07-05 17:02 J	-6576870.91	-6576870.79	-6576870.68	0.2693	0.0645
Mercury	-22713-06-28 13:11 J	-6574320.99	-6574320.95	-6574320.90	0.2697	0.2437
Mercury	-22709-01-04 15:36 J	-6573035.97	-6573035.85	-6573035.72	0.2638	0.1386
Mercury	-22707-07-08 12:00 J	-6572120.08	-6572120.00	-6572119.91	0.2691	0.1771
Mercury	-22700-07-01 07:55 J	-6569570.26	-6569570.17	-6569570.07	0.2696	0.1365
Mercury	-22696-01-06 18:57 J	-6568284.85	-6568284.71	-6568284.56	0.2640	0.0362
Mercury	-22687-07-04 02:52 J	-6564819.49	-6564819.38	-6564819.27	0.2694	0.0265
Venus	-22686-10-29 19:55 J	-6564336.83	-6564336.67	-6564336.51	0.2620	0.0411
Mercury	-22683-01-09 21:50 J	-6563533.68	-6563533.59	-6563533.50	0.2641	0.2055
Mercury	-22674-07-06 21:50 J	-6560068.70	-6560068.59	-6560068.48	0.2693	0.0862
Mercury	-22667-06-29 18:14 J	-6557518.80	-6557518.74	-6557518.68	0.2697	0.2233

Mercury	-22663-01-04 21:50 J	-6556233.73	-6556233.59	-6556233.45	0.2638	0.1054
Mercury	-22661-07-08 17:02 J	-6555317.86	-6555317.79	-6555317.71	0.2691	0.1994
Mercury	-22654-07-02 12:57 J	-6552768.06	-6552767.96	-6552767.86	0.2696	0.1151
Mercury	-22650-01-08 01:11 J	-6551482.60	-6551482.45	-6551482.31	0.2640	0.0693
Mercury	-22641-07-04 07:55 J	-6548017.29	-6548017.17	-6548017.06	0.2694	0.0054
Mercury	-22637-01-11 03:50 J	-6546731.40	-6546731.34	-6546731.27	0.2642	0.2369
Mercury	-22630-01-03 00:14 J	-6544182.53	-6544182.49	-6544182.45	0.2636	0.2514
Mercury	-22628-07-07 02:52 J	-6543266.48	-6543266.38	-6543266.27	0.2692	0.1072
Mercury	-22621-06-29 23:16 J	-6540716.61	-6540716.53	-6540716.46	0.2697	0.2025
Mercury	-22617-01-06 03:50 J	-6539431.48	-6539431.34	-6539431.19	0.2638	0.0729
Mercury	-22615-07-09 22:04 J	-6538515.64	-6538515.58	-6538515.52	0.2691	0.2219
Mercury	-22608-07-02 18:00 J	-6535965.86	-6535965.75	-6535965.64	0.2696	0.0940
Mercury	-22604-01-08 07:11 J	-6534680.34	-6534680.20	-6534680.07	0.2640	0.1005
Mercury	-22595-07-05 12:57 J	-6531215.08	-6531214.96	-6531214.85	0.2694	0.0184
Mercury	-22584-01-03 06:28 J	-6527380.31	-6527380.23	-6527380.15	0.2637	0.2177
Mercury	-22582-07-08 07:55 J	-6526464.27	-6526464.17	-6526464.07	0.2692	0.1295
Mercury	-22575-07-01 04:04 J	-6523914.41	-6523914.33	-6523914.25	0.2697	0.1819
Mercury	-22571-01-06 10:04 J	-6522629.22	-6522629.08	-6522628.93	0.2638	0.0395
Mercury	-22569-07-10 03:07 J	-6521713.42	-6521713.37	-6521713.32	0.2690	0.2440
Mercury	-22562-07-03 23:02 J	-6519163.65	-6519163.54	-6519163.43	0.2695	0.0729
Mercury	-22558-01-09 13:11 J	-6517878.07	-6517877.95	-6517877.82	0.2640	0.1329
Mercury	-22549-07-05 18:00 J	-6514412.87	-6514412.75	-6514412.64	0.2694	0.0401
Venus	-22548-05-01 01:26 J	-6514113.59	-6514113.44	-6514113.30	0.2713	0.1065
Mercury	-22542-06-29 14:23 J	-6511862.91	-6511862.90	-6511862.89	0.2698	0.2683
Mercury	-22538-01-04 12:43 J	-6510578.08	-6510577.97	-6510577.87	0.2637	0.1844
Mercury	-22536-07-08 12:57 J	-6509662.06	-6509661.96	-6509661.87	0.2692	0.1516
Mercury	-22529-07-01 09:07 J	-6507112.21	-6507112.12	-6507112.03	0.2697	0.1610
Mercury	-22525-01-07 16:19 J	-6505826.97	-6505826.82	-6505826.68	0.2639	0.0094
Mercury	-22523-07-11 08:09 J	-6504911.17	-6504911.16	-6504911.15	0.2690	0.2668
Mercury	-22516-07-04 03:50 J	-6502361.45	-6502361.34	-6502361.22	0.2695	0.0521

Mercury	-22512-01-09 19:26 J	-6501075.81	-6501075.69	-6501075.58	0.2640	0.1654
Mercury	-22503-07-06 22:48 J	-6497610.66	-6497610.55	-6497610.44	0.2694	0.0608
Mercury	-22496-06-29 19:11 J	-6495060.74	-6495060.70	-6495060.65	0.2698	0.2482
Mercury	-22492-01-04 18:57 J	-6493775.83	-6493775.71	-6493775.59	0.2637	0.1513
Mercury	-22490-07-09 18:00 J	-6492859.84	-6492859.75	-6492859.66	0.2692	0.1741
Mercury	-22483-07-02 14:09 J	-6490310.01	-6490309.91	-6490309.82	0.2697	0.1406
Mercury	-22479-01-07 22:19 J	-6489024.72	-6489024.57	-6489024.42	0.2639	0.0260
Mercury	-22470-07-05 08:52 J	-6485559.24	-6485559.13	-6485559.02	0.2695	0.0298
Mercury	-22466-01-11 01:26 J	-6484273.54	-6484273.44	-6484273.34	0.2641	0.1970
Mercury	-22457-07-07 03:50 J	-6480808.45	-6480808.34	-6480808.23	0.2693	0.0819
Mercury	-22450-07-01 00:14 J	-6478258.55	-6478258.49	-6478258.43	0.2698	0.2274
Mercury	-22446-01-06 00:57 J	-6476973.59	-6476973.46	-6476973.32	0.2637	0.1176
Mercury	-22444-07-09 23:02 J	-6476057.62	-6476057.54	-6476057.46	0.2692	0.1964
Venus	-22443-10-29 23:02 J	-6475580.69	-6475580.54	-6475580.38	0.2620	0.0746
Mercury	-22437-07-02 18:57 J	-6473507.81	-6473507.71	-6473507.61	0.2696	0.1190
Venus	-22435-10-27 16:04 J	-6472660.90	-6472660.83	-6472660.77	0.2620	0.2382
Mercury	-22433-01-09 04:33 J	-6472222.46	-6472222.31	-6472222.17	0.2639	0.0587
Mercury	-22424-07-05 13:55 J	-6468757.04	-6468756.92	-6468756.81	0.2695	0.0107
Mercury	-22420-01-11 07:26 J	-6467471.26	-6467471.19	-6467471.12	0.2641	0.2291
Mercury	-22411-07-08 08:52 J	-6464006.24	-6464006.13	-6464006.02	0.2693	0.1042
Mercury	-22404-07-01 05:16 J	-6461456.35	-6461456.28	-6461456.21	0.2698	0.2068
Mercury	-22400-01-06 07:11 J	-6460171.34	-6460171.20	-6460171.06	0.2638	0.0840
Mercury	-22398-07-11 04:04 J	-6459255.40	-6459255.33	-6459255.27	0.2691	0.2188
Mercury	-22391-07-04 00:00 J	-6456705.61	-6456705.50	-6456705.40	0.2696	0.0978
Mercury	-22387-01-09 10:33 J	-6455420.20	-6455420.06	-6455419.92	0.2639	0.0913
Mercury	-22378-07-06 18:43 J	-6451954.83	-6451954.72	-6451954.60	0.2694	0.0174
Mercury	-22374-01-12 13:26 J	-6450668.95	-6450668.94	-6450668.92	0.2641	0.2608
Mercury	-22367-01-04 09:50 J	-6448120.16	-6448120.09	-6448120.02	0.2636	0.2307
Mercury	-22365-07-08 13:55 J	-6447204.02	-6447203.92	-6447203.82	0.2693	0.1261
Mercury	-22358-07-02 10:04 J	-6444654.16	-6444654.08	-6444653.99	0.2698	0.1861

Mercury	-22354-01-07 13:26 J	-6443369.09	-6443368.94	-6443368.79	0.2638	0.0506
Mercury	-22352-07-11 09:07 J	-6442453.17	-6442453.12	-6442453.07	0.2691	0.2413
Mercury	-22345-07-04 05:02 J	-6439903.40	-6439903.29	-6439903.19	0.2696	0.0774
Mercury	-22341-01-10 16:48 J	-6438617.93	-6438617.80	-6438617.67	0.2640	0.1243
Mercury	-22332-07-06 23:45 J	-6435152.62	-6435152.51	-6435152.39	0.2694	0.0353
Mercury	-22321-01-05 15:50 J	-6431317.93	-6431317.84	-6431317.74	0.2636	0.1971
Mercury	-22319-07-09 18:57 J	-6430401.81	-6430401.71	-6430401.62	0.2693	0.1487
Mercury	-22312-07-02 15:07 J	-6427851.96	-6427851.87	-6427851.78	0.2697	0.1650
Mercury	-22308-01-07 19:40 J	-6426566.83	-6426566.68	-6426566.53	0.2638	0.0180
Mercury	-22306-07-12 14:09 J	-6425650.93	-6425650.91	-6425650.89	0.2691	0.2638
Venus	-22305-05-01 00:57 J	-6425357.60	-6425357.46	-6425357.31	0.2713	0.1020
Mercury	-22299-07-05 09:50 J	-6423101.20	-6423101.09	-6423100.98	0.2696	0.0554
Mercury	-22295-01-10 22:48 J	-6421815.66	-6421815.55	-6421815.43	0.2640	0.1569
Mercury	-22286-07-08 04:48 J	-6418350.41	-6418350.30	-6418350.19	0.2694	0.0568
Mercury	-22279-07-01 01:26 J	-6415800.48	-6415800.44	-6415800.40	0.2699	0.2520
Mercury	-22275-01-05 22:04 J	-6414515.69	-6414515.58	-6414515.46	0.2636	0.1631
Mercury	-22273-07-10 00:00 J	-6413599.59	-6413599.50	-6413599.42	0.2692	0.1707
Mercury	-22266-07-03 20:09 J	-6411049.76	-6411049.66	-6411049.57	0.2697	0.1439
Mercury	-22262-01-09 01:40 J	-6409764.58	-6409764.43	-6409764.28	0.2638	0.0164
Mercury	-22253-07-05 14:52 J	-6406298.99	-6406298.88	-6406298.77	0.2696	0.0336
Mercury	-22249-01-12 05:02 J	-6405013.39	-6405013.29	-6405013.19	0.2640	0.1891
Mercury	-22240-07-08 09:50 J	-6401548.20	-6401548.09	-6401547.98	0.2694	0.0789
Mercury	-22233-07-01 06:28 J	-6398998.29	-6398998.23	-6398998.18	0.2698	0.2316
Mercury	-22229-01-07 04:19 J	-6397713.45	-6397713.32	-6397713.19	0.2637	0.1291
Mercury	-22227-07-11 05:02 J	-6396797.37	-6396797.29	-6396797.22	0.2692	0.1936
Mercury	-22220-07-04 00:57 J	-6394247.56	-6394247.46	-6394247.36	0.2697	0.1230
Mercury	-22216-01-09 07:55 J	-6392962.31	-6392962.17	-6392962.02	0.2638	0.0491
Mercury	-22207-07-06 19:55 J	-6389496.79	-6389496.67	-6389496.56	0.2695	0.0125
Mercury	-22203-01-12 11:02 J	-6388211.12	-6388211.04	-6388210.96	0.2640	0.2216
Venus	-22200-10-30 02:09 J	-6386824.55	-6386824.41	-6386824.26	0.2620	0.1057

Mercury	-22194-07-09 14:52 J	-6384745.99	-6384745.88	-6384745.77	0.2694	0.1010
Venus	-22192-10-27 19:26 J	-6383904.79	-6383904.69	-6383904.60	0.2620	0.2047
Mercury	-22187-07-02 11:16 J	-6382196.10	-6382196.03	-6382195.96	0.2698	0.2106
Mercury	-22183-01-07 10:33 J	-6380911.20	-6380911.06	-6380910.92	0.2637	0.0957
Mercury	-22181-07-11 09:50 J	-6379995.15	-6379995.09	-6379995.02	0.2692	0.2159
Mercury	-22174-07-05 06:00 J	-6377445.36	-6377445.25	-6377445.15	0.2697	0.1016
Mercury	-22170-01-10 14:09 J	-6376160.05	-6376159.91	-6376159.77	0.2639	0.0824
Mercury	-22161-07-07 00:57 J	-6372694.58	-6372694.46	-6372694.35	0.2695	0.0138
Mercury	-22157-01-13 17:02 J	-6371408.82	-6371408.79	-6371408.75	0.2640	0.2541
Mercury	-22150-01-05 12:57 J	-6368860.02	-6368859.96	-6368859.91	0.2635	0.2442
Mercury	-22148-07-09 19:55 J	-6367943.77	-6367943.67	-6367943.57	0.2693	0.1235
Mercury	-22141-07-02 16:19 J	-6365393.90	-6365393.82	-6365393.74	0.2698	0.1901
Mercury	-22137-01-08 16:48 J	-6364108.95	-6364108.80	-6364108.66	0.2637	0.0618
Mercury	-22135-07-12 14:52 J	-6363192.93	-6363192.88	-6363192.83	0.2692	0.2385
Mercury	-22128-07-05 11:02 J	-6360643.15	-6360643.04	-6360642.93	0.2697	0.0806
Mercury	-22124-01-10 20:09 J	-6359357.79	-6359357.66	-6359357.53	0.2639	0.1149
Mercury	-22115-07-08 05:45 J	-6355892.37	-6355892.26	-6355892.14	0.2695	0.0329
Mercury	-22104-01-05 19:11 J	-6352057.79	-6352057.70	-6352057.61	0.2636	0.2096
Mercury	-22102-07-11 00:43 J	-6351141.56	-6351141.47	-6351141.37	0.2693	0.1455
Mercury	-22095-07-03 21:07 J	-6348591.70	-6348591.62	-6348591.53	0.2698	0.1691
Mercury	-22091-01-08 23:02 J	-6347306.69	-6347306.54	-6347306.40	0.2637	0.0291
Mercury	-22089-07-12 19:55 J	-6346390.69	-6346390.67	-6346390.64	0.2691	0.2611
Mercury	-22082-07-06 15:50 J	-6343840.95	-6343840.84	-6343840.73	0.2696	0.0593
Mercury	-22078-01-12 02:09 J	-6342555.53	-6342555.41	-6342555.28	0.2639	0.1479
Mercury	-22069-07-08 10:48 J	-6339090.16	-6339090.05	-6339089.94	0.2695	0.0533
Venus	-22062-05-02 00:14 J	-6336601.64	-6336601.49	-6336601.34	0.2713	0.0913
Mercury	-22062-07-02 07:26 J	-6336540.22	-6336540.19	-6336540.15	0.2699	0.2563
Mercury	-22058-01-07 01:26 J	-6335255.55	-6335255.44	-6335255.33	0.2636	0.1747
Mercury	-22056-07-11 05:45 J	-6334339.35	-6334339.26	-6334339.17	0.2693	0.1680
Mercury	-22049-07-04 02:09 J	-6331789.51	-6331789.41	-6331789.32	0.2698	0.1477

Mercury	-22045-01-10 05:16 J	-6330504.43	-6330504.28	-6330504.14	0.2637	0.0099
Mercury	-22036-07-06 20:52 J	-6327038.74	-6327038.63	-6327038.52	0.2696	0.0374
Mercury	-22032-01-12 08:23 J	-6325753.26	-6325753.15	-6325753.04	0.2639	0.1809
Mercury	-22023-07-09 15:50 J	-6322287.95	-6322287.84	-6322287.73	0.2694	0.0755
Mercury	-22016-07-02 12:28 J	-6319738.03	-6319737.98	-6319737.93	0.2699	0.2353
Mercury	-22012-01-07 07:40 J	-6318453.31	-6318453.18	-6318453.06	0.2636	0.1410
Mercury	-22010-07-12 10:48 J	-6317537.13	-6317537.05	-6317536.97	0.2693	0.1898
Mercury	-22003-07-05 07:11 J	-6314987.30	-6314987.20	-6314987.10	0.2698	0.1268

22ND MILLENNIUM BCE

This is a list of transits visible from Earth in the 22nd millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-21999-01-10 11:16 J	-6313702.17	-6313702.03	-6313701.88	0.2638	0.0397		
Mercury	-21990-07-08 01:55 J	-6310236.53	-6310236.42	-6310236.31	0.2696	0.0155		
Mercury	-21986-01-13 14:38 J	-6308950.98	-6308950.89	-6308950.81	0.2640	0.2139		
Mercury	-21977-07-09 20:52 J	-6305485.74	-6305485.63	-6305485.53	0.2694	0.0979		
Mercury	-21970-07-03 17:16 J	-6302935.84	-6302935.78	-6302935.71	0.2699	0.2148		
Mercury	-21966-01-08 13:55 J	-6301651.06	-6301650.92	-6301650.79	0.2636	0.1065		
Mercury	-21964-07-12 15:50 J	-6300734.91	-6300734.84	-6300734.77	0.2693	0.2127		
Mercury	-21957-07-05 12:00 J	-6298185.10	-6298185.00	-6298184.89	0.2698	0.1052		
Venus	-21957-10-30 05:31 J	-6298068.40	-6298068.27	-6298068.13	0.2620	0.1404		
Mercury	-21953-01-11 17:31 J	-6296899.91	-6296899.77	-6296899.63	0.2638	0.0729		
Venus	-21949-10-27 22:33 J	-6295148.67	-6295148.56	-6295148.44	0.2621	0.1714		

Mercury	-21944-07-08 06:57 J	-6293434.33	-6293434.21	-6293434.10	0.2696	0.0093
Mercury	-21940-01-13 20:38 J	-6292148.69	-6292148.64	-6292148.59	0.2640	0.2463
Mercury	-21933-01-06 16:04 J	-6289599.86	-6289599.83	-6289599.80	0.2635	0.2570
Mercury	-21931-07-11 01:40 J	-6288683.53	-6288683.43	-6288683.32	0.2694	0.1204
Mercury	-21924-07-03 22:19 J	-6286133.65	-6286133.57	-6286133.49	0.2699	0.1937
Mercury	-21920-01-08 20:09 J	-6284848.81	-6284848.66	-6284848.52	0.2636	0.0731
Mercury	-21918-07-13 20:52 J	-6283932.68	-6283932.63	-6283932.58	0.2692	0.2352
Mercury	-21911-07-06 17:02 J	-6281382.90	-6281382.79	-6281382.68	0.2697	0.0837
Mercury	-21907-01-11 23:31 J	-6280097.65	-6280097.52	-6280097.38	0.2638	0.1061
Mercury	-21898-07-09 11:45 J	-6276632.12	-6276632.01	-6276631.89	0.2696	0.0292
Mercury	-21887-01-06 22:19 J	-6272797.65	-6272797.57	-6272797.49	0.2635	0.2221
Mercury	-21885-07-11 06:43 J	-6271881.31	-6271881.22	-6271881.12	0.2694	0.1425
Mercury	-21878-07-05 03:21 J	-6269331.45	-6269331.36	-6269331.28	0.2699	0.1726
Mercury	-21874-01-10 02:09 J	-6268046.55	-6268046.41	-6268046.26	0.2637	0.0394
Mercury	-21872-07-14 01:55 J	-6267130.45	-6267130.42	-6267130.39	0.2692	0.2583
Mercury	-21865-07-06 22:04 J	-6264580.69	-6264580.58	-6264580.47	0.2697	0.0626
Mercury	-21861-01-13 05:45 J	-6263295.39	-6263295.26	-6263295.14	0.2638	0.1390
Mercury	-21852-07-09 16:48 J	-6259829.91	-6259829.80	-6259829.69	0.2695	0.0503
Mercury	-21845-07-02 13:40 J	-6257279.96	-6257279.93	-6257279.91	0.2700	0.2603
Mercury	-21841-01-08 04:33 J	-6255995.41	-6255995.31	-6255995.20	0.2635	0.1877
Mercury	-21839-07-12 11:45 J	-6255079.10	-6255079.01	-6255078.92	0.2694	0.1646
Mercury	-21832-07-05 08:09 J	-6252529.25	-6252529.16	-6252529.06	0.2698	0.1516
Mercury	-21828-01-10 08:23 J	-6251244.30	-6251244.15	-6251244.00	0.2637	0.0051
Venus	-21819-05-01 23:45 J	-6247845.67	-6247845.51	-6247845.36	0.2713	0.0864
Mercury	-21819-07-08 02:52 J	-6247778.49	-6247778.38	-6247778.26	0.2697	0.0411
Mercury	-21815-01-13 11:45 J	-6246493.12	-6246493.01	-6246492.89	0.2639	0.1726
Mercury	-21806-07-10 21:50 J	-6243027.70	-6243027.59	-6243027.48	0.2695	0.0725
Mercury	-21799-07-03 18:28 J	-6240477.78	-6240477.73	-6240477.68	0.2700	0.2397
Mercury	-21795-01-08 10:48 J	-6239193.17	-6239193.05	-6239192.93	0.2635	0.1528
Mercury	-21793-07-12 16:48 J	-6238276.88	-6238276.80	-6238276.72	0.2693	0.1872

Mercury	-21786-07-06 13:11 J	-6235727.05	-6235726.95	-6235726.85	0.2698	0.1303
Mercury	-21782-01-11 14:38 J	-6234442.04	-6234441.89	-6234441.74	0.2637	0.0293
Mercury	-21773-07-08 07:55 J	-6230976.28	-6230976.17	-6230976.06	0.2697	0.0189
Mercury	-21769-01-14 18:00 J	-6229690.84	-6229690.75	-6229690.66	0.2639	0.2052
Mercury	-21760-07-11 02:52 J	-6226225.49	-6226225.38	-6226225.28	0.2695	0.0950
Mercury	-21753-07-03 23:31 J	-6223675.59	-6223675.52	-6223675.46	0.2700	0.2184
Mercury	-21749-01-09 17:02 J	-6222390.92	-6222390.79	-6222390.65	0.2636	0.1184
Mercury	-21747-07-13 21:50 J	-6221474.66	-6221474.59	-6221474.52	0.2693	0.2097
Mercury	-21740-07-06 18:14 J	-6218924.85	-6218924.74	-6218924.64	0.2698	0.1095
Mercury	-21736-01-11 20:52 J	-6217639.78	-6217639.63	-6217639.49	0.2637	0.0633
Mercury	-21727-07-09 12:57 J	-6214174.08	-6214173.96	-6214173.85	0.2696	0.0109
Mercury	-21723-01-15 00:14 J	-6212888.55	-6212888.49	-6212888.43	0.2639	0.2388
Mercury	-21714-07-12 07:40 J	-6209423.28	-6209423.18	-6209423.07	0.2695	0.1169
Venus	-21714-10-31 09:07 J	-6209312.24	-6209312.12	-6209312.00	0.2620	0.1731
Mercury	-21707-07-05 04:33 J	-6206873.39	-6206873.31	-6206873.24	0.2699	0.1976
Venus	-21706-10-29 02:09 J	-6206392.54	-6206392.41	-6206392.27	0.2621	0.1356
Mercury	-21703-01-09 23:16 J	-6205588.67	-6205588.53	-6205588.39	0.2636	0.0835
Mercury	-21701-07-14 02:52 J	-6204672.44	-6204672.38	-6204672.33	0.2693	0.2328
Mercury	-21694-07-07 23:02 J	-6202122.65	-6202122.54	-6202122.43	0.2698	0.0871
Mercury	-21690-01-13 03:07 J	-6200837.51	-6200837.37	-6200837.24	0.2637	0.0970
Mercury	-21681-07-09 17:45 J	-6197371.87	-6197371.76	-6197371.64	0.2696	0.0260
Mercury	-21670-01-08 01:26 J	-6193537.50	-6193537.44	-6193537.37	0.2634	0.2346
Mercury	-21668-07-12 12:43 J	-6192621.07	-6192620.97	-6192620.87	0.2695	0.1391
Mercury	-21661-07-05 09:21 J	-6190071.19	-6190071.11	-6190071.02	0.2699	0.1762
Mercury	-21657-01-11 05:31 J	-6188786.42	-6188786.27	-6188786.12	0.2636	0.0496
Mercury	-21655-07-15 07:55 J	-6187870.21	-6187870.17	-6187870.14	0.2693	0.2552
Mercury	-21648-07-08 04:04 J	-6185320.44	-6185320.33	-6185320.22	0.2698	0.0659
Mercury	-21644-01-13 09:07 J	-6184035.25	-6184035.12	-6184034.99	0.2638	0.1308
Mercury	-21635-07-10 22:48 J	-6180569.66	-6180569.55	-6180569.44	0.2696	0.0472
Mercury	-21628-07-03 19:40 J	-6178019.70	-6178019.68	-6178019.66	0.2700	0.2644

Mercury	-21624-01-08 07:40 J	-6176735.27	-6176735.18	-6176735.08	0.2634	0.2003
Mercury	-21622-07-13 17:45 J	-6175818.85	-6175818.76	-6175818.67	0.2694	0.1617
Mercury	-21615-07-06 14:23 J	-6173269.00	-6173268.90	-6173268.81	0.2699	0.1555
Mercury	-21611-01-11 11:45 J	-6171984.16	-6171984.01	-6171983.86	0.2636	0.0149
Mercury	-21602-07-09 08:52 J	-6168518.24	-6168518.13	-6168518.01	0.2697	0.0448
Mercury	-21598-01-14 15:21 J	-6167232.98	-6167232.86	-6167232.75	0.2638	0.1640
Mercury	-21589-07-11 03:50 J	-6163767.45	-6163767.34	-6163767.23	0.2696	0.0693
Mercury	-21582-07-05 00:43 J	-6161217.52	-6161217.47	-6161217.43	0.2700	0.2431
Mercury	-21578-01-09 13:55 J	-6159933.03	-6159932.92	-6159932.80	0.2635	0.1655
Venus	-21576-05-01 22:33 J	-6159089.71	-6159089.56	-6159089.41	0.2712	0.0741
Mercury	-21576-07-13 22:48 J	-6159016.63	-6159016.55	-6159016.47	0.2694	0.1844
Mercury	-21569-07-06 19:11 J	-6156466.80	-6156466.70	-6156466.60	0.2699	0.1340
Mercury	-21565-01-12 18:00 J	-6155181.90	-6155181.75	-6155181.61	0.2636	0.0198
Mercury	-21556-07-09 13:55 J	-6151716.03	-6151715.92	-6151715.81	0.2697	0.0224
Mercury	-21552-01-14 21:21 J	-6150430.70	-6150430.61	-6150430.51	0.2638	0.1975
Mercury	-21543-07-12 08:52 J	-6146965.24	-6146965.13	-6146965.03	0.2696	0.0918
Mercury	-21536-07-05 05:31 J	-6144415.33	-6144415.27	-6144415.21	0.2700	0.2227
Mercury	-21532-01-09 20:09 J	-6143130.79	-6143130.66	-6143130.53	0.2635	0.1304
Mercury	-21530-07-15 03:50 J	-6142214.41	-6142214.34	-6142214.27	0.2694	0.2072
Mercury	-21523-07-08 00:14 J	-6139664.60	-6139664.49	-6139664.39	0.2699	0.1123
Mercury	-21519-01-13 00:14 J	-6138379.64	-6138379.49	-6138379.35	0.2637	0.0536
Mercury	-21510-07-10 18:57 J	-6134913.83	-6134913.71	-6134913.60	0.2697	0.0046
Mercury	-21506-01-16 03:36 J	-6133628.42	-6133628.35	-6133628.28	0.2638	0.2305
Mercury	-21497-07-12 13:40 J	-6130163.03	-6130162.93	-6130162.82	0.2695	0.1142
Mercury	-21490-07-06 10:33 J	-6127613.14	-6127613.06	-6127612.99	0.2700	0.2013
Mercury	-21486-01-11 02:23 J	-6126328.53	-6126328.40	-6126328.26	0.2635	0.0959
Mercury	-21484-07-15 08:38 J	-6125412.19	-6125412.14	-6125412.08	0.2694	0.2299
Mercury	-21477-07-08 05:02 J	-6122862.39	-6122862.29	-6122862.18	0.2698	0.0914
Mercury	-21473-01-14 06:14 J	-6121577.38	-6121577.24	-6121577.10	0.2637	0.0875
Venus	-21471-10-31 12:28 J	-6120556.08	-6120555.98	-6120555.89	0.2620	0.2058

Mercury	-21464-07-11 00:00 J	-6118111.62	-6118111.50	-6118111.39	0.2697	0.0245
Venus	-21463-10-29 05:45 J	-6117636.41	-6117636.26	-6117636.12	0.2621	0.1034
Mercury	-21453-01-09 04:33 J	-6114277.35	-6114277.31	-6114277.26	0.2634	0.2483
Mercury	-21451-07-13 18:43 J	-6113360.82	-6113360.72	-6113360.62	0.2695	0.1365
Mercury	-21444-07-06 15:21 J	-6110810.94	-6110810.86	-6110810.77	0.2700	0.1805
Mercury	-21440-01-11 08:52 J	-6109526.28	-6109526.13	-6109525.99	0.2635	0.0603
Mercury	-21438-07-16 13:40 J	-6108609.96	-6108609.93	-6108609.89	0.2693	0.2528
Mercury	-21431-07-09 10:04 J	-6106060.19	-6106060.08	-6106059.97	0.2698	0.0693
Mercury	-21427-01-14 12:28 J	-6104775.11	-6104774.98	-6104774.85	0.2637	0.1216
Mercury	-21418-07-12 04:48 J	-6101309.41	-6101309.30	-6101309.19	0.2697	0.0439
Mercury	-21411-07-05 01:55 J	-6098759.43	-6098759.42	-6098759.41	0.2701	0.2679
Mercury	-21407-01-09 10:48 J	-6097475.13	-6097475.05	-6097474.96	0.2634	0.2127
Mercury	-21405-07-13 23:45 J	-6096558.60	-6096558.51	-6096558.42	0.2695	0.1587
Mercury	-21398-07-07 20:23 J	-6094008.74	-6094008.65	-6094008.56	0.2700	0.1588
Mercury	-21394-01-12 14:52 J	-6092724.02	-6092723.88	-6092723.73	0.2635	0.0274
Mercury	-21385-07-09 15:07 J	-6089257.99	-6089257.87	-6089257.76	0.2698	0.0483
Mercury	-21381-01-15 18:43 J	-6087972.84	-6087972.72	-6087972.60	0.2637	0.1554
Mercury	-21372-07-12 09:50 J	-6084507.20	-6084507.09	-6084506.98	0.2697	0.0660
Mercury	-21365-07-05 06:43 J	-6081957.26	-6081957.22	-6081957.18	0.2701	0.2474
Mercury	-21361-01-10 17:16 J	-6080672.89	-6080672.78	-6080672.67	0.2634	0.1772
Mercury	-21359-07-15 04:48 J	-6079756.39	-6079756.30	-6079756.22	0.2695	0.1814
Mercury	-21352-07-08 01:11 J	-6077206.54	-6077206.45	-6077206.35	0.2699	0.1378
Mercury	-21348-01-12 21:07 J	-6075921.76	-6075921.62	-6075921.47	0.2636	0.0122
Mercury	-21339-07-10 19:55 J	-6072455.78	-6072455.67	-6072455.55	0.2698	0.0268
Mercury	-21335-01-16 00:43 J	-6071170.57	-6071170.47	-6071170.36	0.2637	0.1891
Venus	-21333-05-01 21:36 J	-6070333.75	-6070333.60	-6070333.44	0.2712	0.0656
Mercury	-21326-07-13 14:52 J	-6067704.99	-6067704.88	-6067704.78	0.2696	0.0886
Mercury	-21319-07-06 11:45 J	-6065155.07	-6065155.01	-6065154.95	0.2701	0.2262
Mercury	-21315-01-10 23:31 J	-6063870.65	-6063870.52	-6063870.40	0.2634	0.1421
Mercury	-21313-07-15 09:36 J	-6062954.17	-6062954.10	-6062954.02	0.2695	0.2041

Mercury	-21306-07-09 06:14 J	-6060404.34	-6060404.24	-6060404.14	0.2699	0.1160
Mercury	-21302-01-14 03:21 J	-6059119.50	-6059119.36	-6059119.21	0.2636	0.0436
Mercury	-21293-07-11 00:57 J	-6055653.57	-6055653.46	-6055653.35	0.2698	0.0037
Mercury	-21289-01-17 06:57 J	-6054368.28	-6054368.21	-6054368.13	0.2638	0.2234
Mercury	-21280-07-13 19:40 J	-6050902.78	-6050902.68	-6050902.57	0.2696	0.1115
Mercury	-21273-07-06 16:33 J	-6048352.88	-6048352.81	-6048352.74	0.2701	0.2054
Mercury	-21269-01-12 05:45 J	-6047068.40	-6047068.26	-6047068.12	0.2634	0.1071
Mercury	-21267-07-16 14:38 J	-6046151.95	-6046151.89	-6046151.83	0.2694	0.2271
Mercury	-21260-07-09 11:16 J	-6043602.14	-6043602.03	-6043601.93	0.2699	0.0946
Mercury	-21256-01-14 09:36 J	-6042317.24	-6042317.10	-6042316.96	0.2636	0.0781
Mercury	-21247-07-12 06:00 J	-6038851.37	-6038851.25	-6038851.14	0.2698	0.0200
Mercury	-21243-01-17 13:11 J	-6037565.98	-6037565.95	-6037565.92	0.2638	0.2566
Mercury	-21236-01-09 07:40 J	-6035017.19	-6035017.18	-6035017.17	0.2633	0.2613
Mercury	-21234-07-15 00:43 J	-6034100.57	-6034100.47	-6034100.37	0.2696	0.1332
Venus	-21228-10-31 16:04 J	-6031799.89	-6031799.83	-6031799.77	0.2621	0.2414
Mercury	-21227-07-07 21:36 J	-6031550.68	-6031550.60	-6031550.52	0.2700	0.1838
Mercury	-21223-01-12 12:00 J	-6030266.15	-6030266.00	-6030265.86	0.2635	0.0722
Mercury	-21221-07-16 19:40 J	-6029349.72	-6029349.68	-6029349.64	0.2694	0.2501
Venus	-21220-10-29 09:21 J	-6028880.26	-6028880.11	-6028879.95	0.2621	0.0672
Mercury	-21214-07-10 16:04 J	-6026799.94	-6026799.83	-6026799.72	0.2699	0.0731
Mercury	-21210-01-15 15:50 J	-6025514.98	-6025514.84	-6025514.71	0.2636	0.1117
Mercury	-21201-07-12 10:48 J	-6022049.16	-6022049.05	-6022048.93	0.2697	0.0410
Mercury	-21190-01-10 13:55 J	-6018214.99	-6018214.92	-6018214.84	0.2633	0.2254
Mercury	-21188-07-15 05:45 J	-6017298.35	-6017298.26	-6017298.17	0.2696	0.1559
Mercury	-21181-07-08 02:23 J	-6014748.49	-6014748.40	-6014748.31	0.2700	0.1629
Mercury	-21177-01-13 18:14 J	-6013463.89	-6013463.74	-6013463.59	0.2635	0.0365
Mercury	-21168-07-10 21:07 J	-6009997.73	-6009997.62	-6009997.51	0.2699	0.0506
Mercury	-21164-01-15 22:04 J	-6008712.71	-6008712.58	-6008712.46	0.2637	0.1464
Mercury	-21155-07-13 15:50 J	-6005246.95	-6005246.84	-6005246.73	0.2697	0.0628
Mercury	-21148-07-06 12:57 J	-6002697.00	-6002696.96	-6002696.92	0.2702	0.2513

Mercury	-21144-01-10 20:23 J	-6001412.76	-6001412.65	-6001412.55	0.2633	0.1895
Mercury	-21142-07-16 10:48 J	-6000496.14	-6000496.05	-6000495.97	0.2695	0.1785
Mercury	-21135-07-09 07:26 J	-5997946.29	-5997946.19	-5997946.10	0.2700	0.1411
Mercury	-21131-01-14 00:28 J	-5996661.63	-5996661.48	-5996661.33	0.2635	0.0027
Mercury	-21122-07-12 01:55 J	-5993195.53	-5993195.42	-5993195.30	0.2699	0.0312
Mercury	-21118-01-17 04:04 J	-5991910.43	-5991910.33	-5991910.22	0.2637	0.1811
Mercury	-21109-07-13 20:52 J	-5988444.74	-5988444.63	-5988444.53	0.2697	0.0858
Mercury	-21102-07-07 17:45 J	-5985894.81	-5985894.76	-5985894.70	0.2701	0.2301
Mercury	-21098-01-12 02:38 J	-5984610.51	-5984610.39	-5984610.27	0.2634	0.1544
Mercury	-21096-07-16 15:36 J	-5983693.92	-5983693.85	-5983693.77	0.2695	0.2015
Venus	-21090-05-02 20:38 J	-5981577.80	-5981577.64	-5981577.49	0.2712	0.0540
Mercury	-21089-07-09 12:14 J	-5981144.09	-5981143.99	-5981143.88	0.2700	0.1201
Mercury	-21085-01-15 06:43 J	-5979859.37	-5979859.22	-5979859.07	0.2635	0.0337
Mercury	-21076-07-12 06:57 J	-5976393.32	-5976393.21	-5976393.10	0.2698	0.0073
Mercury	-21072-01-17 10:19 J	-5975108.15	-5975108.07	-5975107.98	0.2637	0.2150
Mercury	-21063-07-15 01:40 J	-5971642.53	-5971642.43	-5971642.32	0.2697	0.1075
Mercury	-21056-07-07 22:48 J	-5969092.62	-5969092.55	-5969092.48	0.2701	0.2088
Mercury	-21052-01-12 08:52 J	-5967808.27	-5967808.13	-5967808.00	0.2634	0.1185
Mercury	-21050-07-17 20:38 J	-5966891.70	-5966891.64	-5966891.58	0.2695	0.2240
Mercury	-21043-07-10 17:16 J	-5964341.88	-5964341.78	-5964341.67	0.2700	0.0977
Mercury	-21039-01-15 12:57 J	-5963057.11	-5963056.96	-5963056.82	0.2635	0.0681
Mercury	-21030-07-13 12:00 J	-5959591.12	-5959591.00	-5959590.89	0.2698	0.0163
Mercury	-21026-01-18 16:33 J	-5958305.86	-5958305.81	-5958305.76	0.2637	0.2491
Mercury	-21017-07-15 06:43 J	-5954840.32	-5954840.22	-5954840.12	0.2697	0.1303
Mercury	-21010-07-09 03:36 J	-5952290.43	-5952290.35	-5952290.27	0.2701	0.1878
Mercury	-21006-01-13 15:07 J	-5951006.01	-5951005.87	-5951005.73	0.2634	0.0828
Mercury	-21004-07-18 01:40 J	-5950089.47	-5950089.43	-5950089.39	0.2695	0.2470

21ST MILLENNIUM BCE

This is a list of transits visible from Earth in the 21st millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-20997-07-10 22:19 J		-5947539.68	-5947539.57	-5947539.47	0.2700	0.0763	
Mercury	-20993-01-16 19:11 J		-5946254.84	-5946254.70	-5946254.57	0.2636	0.1033	
Mercury	-20984-07-13 16:48 J		-5942788.91	-5942788.80	-5942788.68	0.2698	0.0390	
Venus	-20977-10-29 12:57 J		-5940124.12	-5940123.96	-5940123.80	0.2622	0.0340	
Mercury	-20973-01-11 17:02 J		-5938954.85	-5938954.79	-5938954.73	0.2632	0.2385	
Mercury	-20971-07-16 11:45 J		-5938038.10	-5938038.01	-5938037.92	0.2696	0.1529	
Mercury	-20964-07-09 08:38 J		-5935488.23	-5935488.14	-5935488.05	0.2701	0.1660	
Mercury	-20960-01-13 21:21 J		-5934203.76	-5934203.61	-5934203.46	0.2634	0.0478	
Mercury	-20951-07-12 03:07 J		-5930737.48	-5930737.37	-5930737.26	0.2699	0.0544	
Mercury	-20947-01-17 01:26 J		-5929452.57	-5929452.44	-5929452.32	0.2636	0.1378	
Mercury	-20938-07-14 21:50 J		-5925986.70	-5925986.59	-5925986.48	0.2698	0.0598	
Mercury	-20931-07-07 18:57 J		-5923436.74	-5923436.71	-5923436.67	0.2702	0.2552	
Mercury	-20927-01-11 23:16 J		-5922152.62	-5922152.53	-5922152.43	0.2633	0.2030	
Mercury	-20925-07-16 16:48 J		-5921235.89	-5921235.80	-5921235.72	0.2696	0.1761	
Mercury	-20918-07-10 13:26 J		-5918686.03	-5918685.94	-5918685.84	0.2701	0.1450	
Mercury	-20914-01-15 03:36 J		-5917401.50	-5917401.35	-5917401.20	0.2634	0.0129	
Mercury	-20905-07-12 08:09 J		-5913935.28	-5913935.16	-5913935.05	0.2699	0.0329	
Mercury	-20901-01-18 07:26 J		-5912650.30	-5912650.19	-5912650.08	0.2636	0.1720	
Mercury	-20892-07-15 02:52 J		-5909184.49	-5909184.38	-5909184.27	0.2698	0.0823	
Mercury	-20885-07-08 00:00 J		-5906634.56	-5906634.50	-5906634.45	0.2702	0.2341	
Mercury	-20881-01-13 05:45 J		-5905350.38	-5905350.26	-5905350.15	0.2633	0.1668	
Mercury	-20879-07-17 21:36 J		-5904433.67	-5904433.60	-5904433.52	0.2696	0.1984	

Mercury	-20872-07-10 18:28 J	-5901883.83	-5901883.73	-5901883.63	0.2700	0.1233
Mercury	-20868-01-15 09:50 J	-5900599.24	-5900599.09	-5900598.94	0.2635	0.0226
Mercury	-20859-07-13 12:57 J	-5897133.07	-5897132.96	-5897132.84	0.2699	0.0122
Mercury	-20855-01-18 13:40 J	-5895848.02	-5895847.93	-5895847.84	0.2636	0.2059
Venus	-20847-05-02 19:11 J	-5892821.86	-5892821.70	-5892821.54	0.2711	0.0403
Mercury	-20846-07-16 07:40 J	-5892382.28	-5892382.18	-5892382.07	0.2697	0.1051
Mercury	-20839-07-09 04:48 J	-5889832.36	-5889832.30	-5889832.23	0.2702	0.2129
Mercury	-20835-01-13 12:00 J	-5888548.13	-5888548.00	-5888547.87	0.2633	0.1301
Mercury	-20833-07-18 02:38 J	-5887631.45	-5887631.39	-5887631.33	0.2696	0.2215
Mercury	-20826-07-11 23:16 J	-5885081.63	-5885081.53	-5885081.42	0.2700	0.1017
Mercury	-20822-01-16 16:04 J	-5883796.97	-5883796.83	-5883796.68	0.2635	0.0584
Mercury	-20813-07-13 18:00 J	-5880330.86	-5880330.75	-5880330.64	0.2699	0.0120
Mercury	-20809-01-19 19:55 J	-5879045.73	-5879045.67	-5879045.62	0.2637	0.2408
Mercury	-20800-07-16 12:43 J	-5875580.07	-5875579.97	-5875579.87	0.2697	0.1273
Mercury	-20793-07-09 09:50 J	-5873030.17	-5873030.09	-5873030.01	0.2702	0.1913
Mercury	-20789-01-14 18:14 J	-5871745.88	-5871745.74	-5871745.60	0.2633	0.0945
Mercury	-20787-07-19 07:40 J	-5870829.23	-5870829.18	-5870829.14	0.2696	0.2443
Mercury	-20780-07-12 04:19 J	-5868279.43	-5868279.32	-5868279.21	0.2700	0.0796
Mercury	-20776-01-16 22:19 J	-5866994.71	-5866994.57	-5866994.43	0.2635	0.0937
Mercury	-20767-07-14 23:02 J	-5863528.66	-5863528.54	-5863528.43	0.2699	0.0350
Mercury	-20756-01-11 20:09 J	-5859694.70	-5859694.66	-5859694.62	0.2632	0.2516
Mercury	-20754-07-17 17:45 J	-5858777.86	-5858777.76	-5858777.67	0.2697	0.1501
Mercury	-20747-07-10 14:38 J	-5856227.97	-5856227.89	-5856227.80	0.2701	0.1698
Mercury	-20743-01-15 00:28 J	-5854943.62	-5854943.48	-5854943.33	0.2633	0.0590
Mercury	-20741-07-19 12:43 J	-5854026.98	-5854026.97	-5854026.96	0.2695	0.2676
Mercury	-20734-07-13 09:07 J	-5851477.23	-5851477.12	-5851477.00	0.2700	0.0587
Venus	-20734-10-30 16:48 J	-5851367.96	-5851367.80	-5851367.64	0.2622	0.0037
Mercury	-20730-01-18 04:33 J	-5850192.44	-5850192.31	-5850192.18	0.2635	0.1286
Mercury	-20721-07-15 03:50 J	-5846726.45	-5846726.34	-5846726.23	0.2698	0.0574
Mercury	-20714-07-09 01:11 J	-5844176.48	-5844176.45	-5844176.42	0.2703	0.2588

Mercury	-20710-01-13 02:23 J	-5842892.48	-5842892.40	-5842892.31	0.2632	0.2153
Mercury	-20708-07-17 22:48 J	-5841975.64	-5841975.55	-5841975.47	0.2697	0.1729
Mercury	-20701-07-10 19:40 J	-5839425.78	-5839425.68	-5839425.59	0.2701	0.1484
Mercury	-20697-01-16 06:43 J	-5838141.37	-5838141.22	-5838141.07	0.2634	0.0236
Mercury	-20688-07-13 14:09 J	-5834675.02	-5834674.91	-5834674.80	0.2700	0.0355
Mercury	-20684-01-18 10:48 J	-5833390.17	-5833390.05	-5833389.94	0.2635	0.1630
Mercury	-20675-07-16 08:52 J	-5829924.24	-5829924.13	-5829924.02	0.2698	0.0791
Mercury	-20668-07-09 06:00 J	-5827374.30	-5827374.25	-5827374.20	0.2702	0.2380
Mercury	-20664-01-13 08:38 J	-5826090.25	-5826090.14	-5826090.03	0.2632	0.1790
Mercury	-20662-07-19 03:36 J	-5825173.42	-5825173.35	-5825173.27	0.2697	0.1960
Mercury	-20655-07-12 00:28 J	-5822623.58	-5822623.48	-5822623.38	0.2701	0.1267
Mercury	-20651-01-16 12:57 J	-5821339.11	-5821338.96	-5821338.81	0.2634	0.0146
Mercury	-20642-07-14 19:11 J	-5817872.82	-5817872.70	-5817872.59	0.2700	0.0148
Mercury	-20638-01-19 17:02 J	-5816587.89	-5816587.79	-5816587.70	0.2636	0.1983
Mercury	-20629-07-16 13:55 J	-5813122.03	-5813121.92	-5813121.82	0.2698	0.1023
Mercury	-20622-07-10 11:02 J	-5810572.11	-5810572.04	-5810571.98	0.2702	0.2166
Mercury	-20618-01-14 15:07 J	-5809288.00	-5809287.87	-5809287.75	0.2632	0.1433
Mercury	-20616-07-19 08:38 J	-5808371.20	-5808371.14	-5808371.08	0.2696	0.2186
Mercury	-20609-07-12 05:31 J	-5805821.38	-5805821.27	-5805821.17	0.2701	0.1050
Mercury	-20605-01-17 19:11 J	-5804536.84	-5804536.70	-5804536.55	0.2634	0.0483
Venus	-20604-05-02 18:00 J	-5804065.91	-5804065.75	-5804065.59	0.2711	0.0280
Mercury	-20596-07-15 00:00 J	-5801070.61	-5801070.50	-5801070.38	0.2699	0.0110
Mercury	-20592-01-19 23:16 J	-5799785.60	-5799785.53	-5799785.47	0.2636	0.2331
Mercury	-20583-07-17 18:43 J	-5796319.82	-5796319.72	-5796319.62	0.2698	0.1246
Mercury	-20576-07-10 15:50 J	-5793769.91	-5793769.84	-5793769.76	0.2702	0.1952
Mercury	-20572-01-14 21:21 J	-5792485.75	-5792485.61	-5792485.47	0.2633	0.1065
Mercury	-20570-07-20 13:40 J	-5791568.98	-5791568.93	-5791568.88	0.2696	0.2420
Mercury	-20563-07-13 10:19 J	-5789019.17	-5789019.07	-5789018.96	0.2701	0.0833
Mercury	-20559-01-18 01:26 J	-5787734.58	-5787734.44	-5787734.29	0.2634	0.0838
Mercury	-20550-07-16 05:02 J	-5784268.40	-5784268.29	-5784268.18	0.2699	0.0314

Mercury	-20537-07-17 23:45 J	-5779517.61	-5779517.51	-5779517.42	0.2698	0.1471
Mercury	-20530-07-11 20:52 J	-5776967.72	-5776967.63	-5776967.55	0.2702	0.1737
Mercury	-20526-01-16 03:36 J	-5775683.49	-5775683.35	-5775683.20	0.2633	0.0701
Mercury	-20524-07-20 18:43 J	-5774766.74	-5774766.72	-5774766.71	0.2696	0.2650
Mercury	-20517-07-13 15:21 J	-5772216.97	-5772216.86	-5772216.75	0.2701	0.0610
Mercury	-20513-01-19 07:40 J	-5770932.31	-5770932.18	-5770932.04	0.2635	0.1192
Mercury	-20504-07-16 09:50 J	-5767466.20	-5767466.09	-5767465.98	0.2699	0.0542
Mercury	-20497-07-09 07:11 J	-5764916.22	-5764916.20	-5764916.17	0.2703	0.2631
Mercury	-20493-01-14 05:31 J	-5763632.35	-5763632.27	-5763632.20	0.2631	0.2278
Mercury	-20491-07-19 04:48 J	-5762715.39	-5762715.30	-5762715.22	0.2698	0.1703
Venus	-20491-10-30 20:23 J	-5762611.80	-5762611.65	-5762611.49	0.2623	0.0362
Mercury	-20484-07-12 01:40 J	-5760165.52	-5760165.43	-5760165.34	0.2702	0.1518
Mercury	-20480-01-16 10:04 J	-5758881.23	-5758881.08	-5758880.93	0.2633	0.0342
Mercury	-20471-07-14 20:09 J	-5755414.77	-5755414.66	-5755414.54	0.2701	0.0402
Mercury	-20467-01-19 14:09 J	-5754130.03	-5754129.91	-5754129.79	0.2635	0.1548
Mercury	-20458-07-17 14:52 J	-5750663.99	-5750663.88	-5750663.77	0.2699	0.0761
Mercury	-20451-07-10 12:14 J	-5748114.04	-5748113.99	-5748113.94	0.2703	0.2414
Mercury	-20447-01-14 11:45 J	-5746830.11	-5746830.01	-5746829.91	0.2632	0.1913
Mercury	-20445-07-19 09:36 J	-5745913.18	-5745913.10	-5745913.02	0.2697	0.1929
Mercury	-20438-07-13 06:43 J	-5743363.32	-5743363.22	-5743363.12	0.2702	0.1300
Mercury	-20434-01-17 16:19 J	-5742078.98	-5742078.82	-5742078.67	0.2633	0.0076
Mercury	-20425-07-15 01:11 J	-5738612.56	-5738612.45	-5738612.34	0.2700	0.0165
Mercury	-20421-01-20 20:23 J	-5737327.76	-5737327.65	-5737327.55	0.2635	0.1903
Mercury	-20412-07-17 19:55 J	-5733861.78	-5733861.67	-5733861.57	0.2699	0.0990
Mercury	-20405-07-10 17:02 J	-5731311.85	-5731311.79	-5731311.72	0.2703	0.2204
Mercury	-20401-01-15 18:00 J	-5730027.87	-5730027.75	-5730027.62	0.2632	0.1548
Mercury	-20399-07-20 14:38 J	-5729110.96	-5729110.89	-5729110.82	0.2697	0.2160
Mercury	-20392-07-13 11:31 J	-5726561.12	-5726561.02	-5726560.92	0.2702	0.1083
Mercury	-20388-01-17 22:33 J	-5725276.71	-5725276.56	-5725276.41	0.2633	0.0385
Mercury	-20379-07-16 06:14 J	-5721810.36	-5721810.24	-5721810.13	0.2700	0.0120

Mercury	-20375-01-21 02:23 J	-5720525.47	-5720525.40	-5720525.32	0.2635	0.2252
Mercury	-20366-07-19 00:43 J	-5717059.57	-5717059.47	-5717059.37	0.2699	0.1220
Venus	-20361-05-02 16:33 J	-5715309.97	-5715309.81	-5715309.65	0.2710	0.0146
Mercury	-20359-07-11 22:04 J	-5714509.66	-5714509.58	-5714509.51	0.2703	0.1985
Mercury	-20355-01-16 00:28 J	-5713225.62	-5713225.48	-5713225.35	0.2632	0.1186
Mercury	-20353-07-20 19:40 J	-5712308.73	-5712308.68	-5712308.63	0.2697	0.2391
Mercury	-20346-07-14 16:33 J	-5709758.92	-5709758.81	-5709758.71	0.2701	0.0864
Mercury	-20342-01-19 04:48 J	-5708474.45	-5708474.30	-5708474.16	0.2634	0.0741
Mercury	-20333-07-16 11:02 J	-5705008.15	-5705008.04	-5705007.93	0.2700	0.0282
Mercury	-20329-01-22 08:38 J	-5703723.16	-5703723.14	-5703723.12	0.2635	0.2602
Mercury	-20320-07-19 05:45 J	-5700257.35	-5700257.26	-5700257.16	0.2698	0.1444
Mercury	-20313-07-12 02:52 J	-5697707.46	-5697707.38	-5697707.29	0.2703	0.1772
Mercury	-20309-01-17 06:43 J	-5696423.36	-5696423.22	-5696423.07	0.2632	0.0813
Mercury	-20307-07-22 00:43 J	-5695506.50	-5695506.47	-5695506.45	0.2697	0.2629
Mercury	-20300-07-14 21:21 J	-5692956.72	-5692956.61	-5692956.50	0.2701	0.0642
Mercury	-20296-01-19 11:02 J	-5691672.18	-5691672.04	-5691671.90	0.2634	0.1097
Mercury	-20287-07-17 16:04 J	-5688205.94	-5688205.83	-5688205.72	0.2700	0.0510
Mercury	-20280-07-10 13:26 J	-5685655.95	-5685655.94	-5685655.92	0.2704	0.2667
Mercury	-20276-01-14 08:23 J	-5684372.21	-5684372.15	-5684372.09	0.2631	0.2409
Mercury	-20274-07-20 10:48 J	-5683455.14	-5683455.05	-5683454.96	0.2698	0.1675
Mercury	-20267-07-13 07:55 J	-5680905.26	-5680905.17	-5680905.08	0.2702	0.1553
Mercury	-20263-01-17 12:57 J	-5679621.11	-5679620.96	-5679620.81	0.2632	0.0455
Mercury	-20254-07-16 02:23 J	-5676154.51	-5676154.40	-5676154.29	0.2701	0.0424
Mercury	-20250-01-20 17:16 J	-5674869.90	-5674869.78	-5674869.66	0.2634	0.1458
Venus	-20248-10-31 00:28 J	-5673855.63	-5673855.48	-5673855.33	0.2623	0.0714
Mercury	-20241-07-17 20:52 J	-5671403.73	-5671403.63	-5671403.52	0.2700	0.0740
Venus	-20240-10-28 18:14 J	-5670935.81	-5670935.74	-5670935.67	0.2624	0.2325
Mercury	-20234-07-11 18:28 J	-5668853.78	-5668853.73	-5668853.69	0.2704	0.2454
Mercury	-20230-01-15 14:52 J	-5667569.98	-5667569.88	-5667569.79	0.2631	0.2041
Mercury	-20228-07-20 15:36 J	-5666652.92	-5666652.85	-5666652.77	0.2698	0.1908

Mercury	-20221-07-13 12:43 J	-5664103.07	-5664102.97	-5664102.87	0.2702	0.1337
Mercury	-20217-01-18 19:26 J	-5662818.84	-5662818.69	-5662818.54	0.2633	0.0088
Mercury	-20208-07-16 07:11 J	-5659352.31	-5659352.20	-5659352.09	0.2701	0.0207
Mercury	-20204-01-20 23:31 J	-5658067.63	-5658067.52	-5658067.41	0.2634	0.1811
Mercury	-20195-07-19 01:55 J	-5654601.53	-5654601.42	-5654601.31	0.2699	0.0960
Mercury	-20188-07-11 23:16 J	-5652051.59	-5652051.53	-5652051.47	0.2704	0.2235
Mercury	-20184-01-15 21:07 J	-5650767.74	-5650767.62	-5650767.50	0.2631	0.1668
Mercury	-20182-07-21 20:38 J	-5649850.71	-5649850.64	-5649850.57	0.2698	0.2134
Mercury	-20175-07-14 17:45 J	-5647300.86	-5647300.76	-5647300.66	0.2702	0.1118
Mercury	-20171-01-19 01:40 J	-5646016.58	-5646016.43	-5646016.28	0.2633	0.0281
Mercury	-20162-07-17 12:14 J	-5642550.10	-5642549.99	-5642549.88	0.2701	0.0042
Mercury	-20158-01-22 05:45 J	-5641265.34	-5641265.26	-5641265.18	0.2634	0.2169
Mercury	-20149-07-19 06:57 J	-5637799.32	-5637799.21	-5637799.11	0.2699	0.1190
Mercury	-20142-07-13 04:19 J	-5635249.40	-5635249.32	-5635249.25	0.2703	0.2025
Mercury	-20138-01-17 03:36 J	-5633965.49	-5633965.35	-5633965.22	0.2631	0.1295
Mercury	-20136-07-22 01:40 J	-5633048.48	-5633048.43	-5633048.38	0.2697	0.2367
Mercury	-20129-07-14 22:33 J	-5630498.66	-5630498.56	-5630498.45	0.2702	0.0893
Mercury	-20125-01-20 07:55 J	-5629214.31	-5629214.17	-5629214.02	0.2633	0.0645
Venus	-20118-05-03 15:07 J	-5626554.03	-5626553.87	-5626553.71	0.2709	0.0020
Mercury	-20116-07-17 17:16 J	-5625747.90	-5625747.78	-5625747.67	0.2701	0.0273
Mercury	-20112-01-22 12:00 J	-5624463.04	-5624463.00	-5624462.96	0.2635	0.2522
Mercury	-20103-07-20 11:45 J	-5620997.10	-5620997.01	-5620996.91	0.2699	0.1417
Mercury	-20096-07-13 09:07 J	-5618447.20	-5618447.12	-5618447.04	0.2703	0.1803
Mercury	-20092-01-17 09:50 J	-5617163.23	-5617163.09	-5617162.95	0.2631	0.0928
Mercury	-20090-07-23 06:28 J	-5616246.25	-5616246.23	-5616246.20	0.2697	0.2598
Mercury	-20083-07-16 03:36 J	-5613696.46	-5613696.35	-5613696.24	0.2702	0.0676
Mercury	-20079-01-20 14:09 J	-5612412.05	-5612411.91	-5612411.77	0.2633	0.1008
Mercury	-20070-07-18 22:04 J	-5608945.69	-5608945.58	-5608945.47	0.2700	0.0481
Mercury	-20063-07-11 19:40 J	-5606395.68	-5606395.68	-5606395.68	0.2704	0.2702
Mercury	-20059-01-15 11:16 J	-5605112.06	-5605112.03	-5605111.99	0.2630	0.2547

Mercury	-20057-07-20 16:48 J	-5604194.89	-5604194.80	-5604194.71	0.2699	0.1649
Mercury	-20050-07-14 13:55 J	-5601645.01	-5601644.92	-5601644.83	0.2703	0.1590
Mercury	-20046-01-18 16:04 J	-5600360.97	-5600360.83	-5600360.68	0.2632	0.0558
Mercury	-20037-07-16 08:23 J	-5596894.26	-5596894.15	-5596894.04	0.2702	0.0454
Mercury	-20033-01-21 20:23 J	-5595609.78	-5595609.65	-5595609.52	0.2633	0.1369
Mercury	-20024-07-19 03:07 J	-5592143.48	-5592143.37	-5592143.26	0.2700	0.0708
Mercury	-20017-07-12 00:28 J	-5589593.52	-5589593.48	-5589593.44	0.2704	0.2487
Mercury	-20013-01-16 17:45 J	-5588309.84	-5588309.76	-5588309.68	0.2630	0.2167
Mercury	-20011-07-21 21:50 J	-5587392.67	-5587392.59	-5587392.51	0.2699	0.1881
Venus	-20005-10-31 04:19 J	-5585099.46	-5585099.32	-5585099.17	0.2624	0.1051
Mercury	-20004-07-14 18:57 J	-5584842.81	-5584842.71	-5584842.62	0.2703	0.1368

20TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 20th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-20000-01-18 22:19 J	-5583558.72	-5583558.57	-5583558.41	0.2632	0.0206		
Venus	-19997-10-28 22:04 J	-5582179.68	-5582179.58	-5582179.47	0.2625	0.1970		
Mercury	-19991-07-17 13:26 J	-5580092.05	-5580091.94	-5580091.83	0.2701	0.0231		
Mercury	-19987-01-22 02:38 J	-5578807.50	-5578807.39	-5578807.28	0.2633	0.1723		
Mercury	-19978-07-20 07:55 J	-5575341.27	-5575341.17	-5575341.06	0.2700	0.0933		
Mercury	-19971-07-13 05:31 J	-5572791.33	-5572791.27	-5572791.22	0.2704	0.2277		
Mercury	-19967-01-17 00:14 J	-5571507.60	-5571507.49	-5571507.38	0.2631	0.1792		
Mercury	-19965-07-22 02:38 J	-5570590.46	-5570590.39	-5570590.32	0.2698	0.2110		

Mercury	-19958-07-15 23:45 J	-5568040.61	-5568040.51	-5568040.41	0.2703	0.1149
Mercury	-19954-01-20 04:48 J	-5566756.45	-5566756.30	-5566756.15	0.2632	0.0183
Mercury	-19945-07-17 18:14 J	-5563289.85	-5563289.74	-5563289.62	0.2701	0.0087
Mercury	-19941-01-23 08:52 J	-5562005.22	-5562005.13	-5562005.04	0.2634	0.2079
Mercury	-19932-07-20 12:57 J	-5558539.06	-5558538.96	-5558538.86	0.2700	0.1160
Mercury	-19925-07-13 10:19 J	-5555989.14	-5555989.07	-5555989.00	0.2704	0.2058
Mercury	-19921-01-18 06:28 J	-5554705.36	-5554705.23	-5554705.10	0.2631	0.1415
Mercury	-19919-07-23 07:40 J	-5553788.24	-5553788.18	-5553788.13	0.2698	0.2341
Mercury	-19912-07-16 04:48 J	-5551238.41	-5551238.30	-5551238.20	0.2703	0.0931
Mercury	-19908-01-20 11:02 J	-5549954.19	-5549954.04	-5549953.89	0.2632	0.0539
Mercury	-19899-07-18 23:16 J	-5546487.64	-5546487.53	-5546487.42	0.2701	0.0223
Mercury	-19895-01-23 15:07 J	-5545202.92	-5545202.87	-5545202.81	0.2634	0.2445
Mercury	-19886-07-21 17:45 J	-5541736.85	-5541736.76	-5541736.66	0.2700	0.1395
Mercury	-19879-07-14 15:21 J	-5539186.95	-5539186.86	-5539186.78	0.2704	0.1844
Mercury	-19875-01-18 12:43 J	-5537903.10	-5537902.97	-5537902.83	0.2631	0.1047
Venus	-19875-05-03 13:26 J	-5537798.10	-5537797.94	-5537797.78	0.2708	0.0153
Mercury	-19873-07-23 12:43 J	-5536986.00	-5536985.97	-5536985.94	0.2698	0.2577
Mercury	-19866-07-17 09:36 J	-5534436.21	-5534436.10	-5534435.99	0.2703	0.0708
Mercury	-19862-01-21 17:16 J	-5533151.92	-5533151.78	-5533151.64	0.2632	0.0914
Mercury	-19853-07-19 04:04 J	-5529685.44	-5529685.33	-5529685.22	0.2701	0.0456
Mercury	-19840-07-21 22:48 J	-5524934.64	-5524934.55	-5524934.46	0.2699	0.1619
Mercury	-19833-07-14 20:09 J	-5522384.75	-5522384.66	-5522384.57	0.2704	0.1618
Mercury	-19829-01-19 19:11 J	-5521100.85	-5521100.70	-5521100.56	0.2631	0.0673
Mercury	-19820-07-17 14:38 J	-5517634.00	-5517633.89	-5517633.78	0.2702	0.0483
Mercury	-19816-01-21 23:31 J	-5516349.65	-5516349.52	-5516349.38	0.2633	0.1274
Mercury	-19807-07-20 09:07 J	-5512883.23	-5512883.12	-5512883.01	0.2701	0.0675
Mercury	-19800-07-13 06:43 J	-5510333.26	-5510333.22	-5510333.18	0.2705	0.2524
Mercury	-19796-01-16 20:38 J	-5509049.71	-5509049.64	-5509049.56	0.2630	0.2294
Mercury	-19794-07-23 03:50 J	-5508132.42	-5508132.34	-5508132.26	0.2699	0.1853
Mercury	-19787-07-16 01:11 J	-5505582.55	-5505582.45	-5505582.36	0.2704	0.1404

Mercury	-19783-01-20 01:26 J	-5504298.59	-5504298.44	-5504298.29	0.2631	0.0300
Mercury	-19774-07-18 19:26 J	-5500831.80	-5500831.69	-5500831.58	0.2702	0.0263
Mercury	-19770-01-23 06:00 J	-5499547.37	-5499547.25	-5499547.14	0.2633	0.1641
Venus	-19762-11-01 08:23 J	-5496343.28	-5496343.15	-5496343.02	0.2624	0.1419
Mercury	-19761-07-20 14:09 J	-5496081.02	-5496080.91	-5496080.81	0.2701	0.0911
Mercury	-19754-07-14 11:31 J	-5493531.07	-5493531.02	-5493530.96	0.2705	0.2311
Venus	-19754-10-30 02:09 J	-5493423.53	-5493423.41	-5493423.29	0.2625	0.1623
Mercury	-19750-01-18 03:07 J	-5492247.48	-5492247.37	-5492247.27	0.2630	0.1916
Mercury	-19748-07-23 08:38 J	-5491330.21	-5491330.14	-5491330.07	0.2699	0.2087
Mercury	-19741-07-16 06:00 J	-5488780.35	-5488780.25	-5488780.15	0.2703	0.1179
Mercury	-19737-01-21 07:40 J	-5487496.33	-5487496.18	-5487496.02	0.2631	0.0109
Mercury	-19728-07-19 00:28 J	-5484029.59	-5484029.48	-5484029.37	0.2702	0.0068
Mercury	-19724-01-23 12:14 J	-5482745.09	-5482744.99	-5482744.90	0.2633	0.2006
Mercury	-19715-07-21 18:57 J	-5479278.81	-5479278.71	-5479278.61	0.2701	0.1137
Mercury	-19708-07-14 16:33 J	-5476728.88	-5476728.81	-5476728.74	0.2704	0.2092
Mercury	-19704-01-18 09:21 J	-5475445.23	-5475445.11	-5475444.99	0.2630	0.1547
Mercury	-19702-07-24 13:40 J	-5474527.98	-5474527.93	-5474527.87	0.2699	0.2321
Mercury	-19695-07-17 10:48 J	-5471978.15	-5471978.05	-5471977.94	0.2703	0.0963
Mercury	-19691-01-21 14:09 J	-5470694.06	-5470693.91	-5470693.76	0.2632	0.0444
Mercury	-19682-07-20 05:16 J	-5467227.39	-5467227.28	-5467227.17	0.2702	0.0201
Mercury	-19678-01-24 18:28 J	-5465942.80	-5465942.73	-5465942.67	0.2633	0.2365
Mercury	-19669-07-22 00:00 J	-5462476.60	-5462476.50	-5462476.41	0.2700	0.1364
Mercury	-19662-07-15 21:21 J	-5459926.69	-5459926.61	-5459926.53	0.2704	0.1874
Mercury	-19658-01-19 15:50 J	-5458642.98	-5458642.84	-5458642.71	0.2630	0.1167
Mercury	-19656-07-24 18:43 J	-5457725.76	-5457725.72	-5457725.69	0.2699	0.2553
Mercury	-19649-07-17 15:50 J	-5455175.95	-5455175.84	-5455175.73	0.2703	0.0738
Mercury	-19645-01-22 20:23 J	-5453891.79	-5453891.65	-5453891.51	0.2632	0.0806
Mercury	-19636-07-20 10:19 J	-5450425.18	-5450425.07	-5450424.96	0.2702	0.0422
Venus	-19632-05-03 12:00 J	-5449042.16	-5449042.00	-5449041.84	0.2708	0.0299
Mercury	-19623-07-23 04:48 J	-5445674.39	-5445674.30	-5445674.21	0.2700	0.1598

Mercury	-19616-07-16 02:23 J	-5443124.49	-5443124.40	-5443124.32	0.2704	0.1658
Mercury	-19612-01-19 22:04 J	-5441840.72	-5441840.58	-5441840.43	0.2630	0.0786
Mercury	-19603-07-18 20:38 J	-5438373.75	-5438373.64	-5438373.53	0.2703	0.0514
Mercury	-19599-01-23 02:38 J	-5437089.52	-5437089.39	-5437089.25	0.2632	0.1186
Mercury	-19590-07-21 15:07 J	-5433622.98	-5433622.87	-5433622.76	0.2701	0.0656
Mercury	-19583-07-14 12:57 J	-5431072.99	-5431072.96	-5431072.93	0.2706	0.2561
Mercury	-19579-01-17 23:31 J	-5429789.57	-5429789.52	-5429789.46	0.2629	0.2422
Mercury	-19577-07-23 09:50 J	-5428872.17	-5428872.09	-5428872.01	0.2700	0.1827
Mercury	-19570-07-17 07:11 J	-5426322.29	-5426322.20	-5426322.11	0.2704	0.1433
Mercury	-19566-01-21 04:33 J	-5425038.46	-5425038.31	-5425038.16	0.2631	0.0406
Mercury	-19557-07-19 01:40 J	-5421571.54	-5421571.43	-5421571.32	0.2703	0.0299
Mercury	-19553-01-24 09:07 J	-5420287.24	-5420287.12	-5420287.00	0.2632	0.1553
Mercury	-19544-07-21 20:09 J	-5416820.77	-5416820.66	-5416820.55	0.2701	0.0877
Mercury	-19537-07-14 17:45 J	-5414270.81	-5414270.76	-5414270.70	0.2705	0.2342
Mercury	-19533-01-19 06:00 J	-5412987.35	-5412987.25	-5412987.16	0.2629	0.2044
Mercury	-19531-07-24 14:52 J	-5412069.95	-5412069.88	-5412069.81	0.2700	0.2064
Mercury	-19524-07-17 12:00 J	-5409520.09	-5409520.00	-5409519.90	0.2704	0.1217
Mercury	-19520-01-21 11:02 J	-5408236.20	-5408236.04	-5408235.89	0.2631	0.0079
Venus	-19519-11-01 12:28 J	-5407587.10	-5407586.98	-5407586.86	0.2625	0.1762
Mercury	-19511-07-20 06:28 J	-5404769.34	-5404769.23	-5404769.12	0.2703	0.0080
Venus	-19511-10-30 06:28 J	-5404667.37	-5404667.23	-5404667.09	0.2626	0.1247
Mercury	-19507-01-24 15:21 J	-5403484.96	-5403484.86	-5403484.76	0.2632	0.1922
Mercury	-19498-07-23 01:11 J	-5400018.56	-5400018.45	-5400018.35	0.2701	0.1112
Mercury	-19491-07-15 22:48 J	-5397468.62	-5397468.55	-5397468.49	0.2705	0.2127
Mercury	-19487-01-19 12:28 J	-5396185.10	-5396184.98	-5396184.87	0.2629	0.1660
Mercury	-19485-07-24 19:40 J	-5395267.74	-5395267.68	-5395267.62	0.2700	0.2291
Mercury	-19478-07-18 17:02 J	-5392717.89	-5392717.79	-5392717.69	0.2704	0.0989
Mercury	-19474-01-22 17:16 J	-5391433.93	-5391433.78	-5391433.63	0.2631	0.0346
Mercury	-19465-07-20 11:31 J	-5387967.13	-5387967.02	-5387966.91	0.2702	0.0172
Mercury	-19461-01-25 21:36 J	-5386682.67	-5386682.60	-5386682.53	0.2633	0.2281

Mercury	-19452-07-23 06:00 J	-5383216.35	-5383216.25	-5383216.15	0.2701	0.1337
Mercury	-19445-07-16 03:36 J	-5380666.43	-5380666.35	-5380666.27	0.2705	0.1908
Mercury	-19441-01-20 18:43 J	-5379382.85	-5379382.72	-5379382.58	0.2630	0.1279
Mercury	-19439-07-26 00:43 J	-5378465.51	-5378465.47	-5378465.44	0.2699	0.2528
Mercury	-19432-07-18 21:50 J	-5375915.69	-5375915.59	-5375915.48	0.2704	0.0771
Mercury	-19428-01-22 23:31 J	-5374631.66	-5374631.52	-5374631.37	0.2631	0.0718
Mercury	-19419-07-21 16:19 J	-5371164.93	-5371164.82	-5371164.71	0.2702	0.0402
Mercury	-19406-07-24 11:02 J	-5366414.13	-5366414.04	-5366413.95	0.2701	0.1572
Mercury	-19399-07-17 08:23 J	-5363864.23	-5363864.15	-5363864.06	0.2705	0.1689
Mercury	-19395-01-21 01:11 J	-5362580.60	-5362580.45	-5362580.31	0.2630	0.0901
Venus	-19389-05-03 10:04 J	-5360286.23	-5360286.08	-5360285.92	0.2707	0.0466
Mercury	-19386-07-20 02:52 J	-5359113.49	-5359113.38	-5359113.27	0.2703	0.0544
Mercury	-19382-01-24 05:45 J	-5357829.39	-5357829.26	-5357829.12	0.2631	0.1088
Mercury	-19373-07-21 21:21 J	-5354362.72	-5354362.61	-5354362.50	0.2702	0.0621
Mercury	-19366-07-15 19:11 J	-5351812.73	-5351812.70	-5351812.68	0.2706	0.2600
Mercury	-19362-01-19 02:23 J	-5350529.43	-5350529.40	-5350529.37	0.2628	0.2558
Mercury	-19360-07-24 15:50 J	-5349611.92	-5349611.84	-5349611.75	0.2701	0.1806
Mercury	-19353-07-17 13:26 J	-5347062.04	-5347061.94	-5347061.85	0.2705	0.1470
Mercury	-19349-01-22 07:26 J	-5345778.34	-5345778.19	-5345778.04	0.2630	0.0525
Mercury	-19340-07-20 07:40 J	-5342311.29	-5342311.18	-5342311.07	0.2703	0.0326
Mercury	-19336-01-24 12:14 J	-5341027.12	-5341026.99	-5341026.87	0.2631	0.1462
Mercury	-19327-07-23 02:09 J	-5337560.51	-5337560.41	-5337560.30	0.2702	0.0856
Mercury	-19320-07-16 00:00 J	-5335010.55	-5335010.50	-5335010.45	0.2706	0.2379
Mercury	-19316-01-19 08:52 J	-5333727.21	-5333727.13	-5333727.04	0.2629	0.2168
Mercury	-19314-07-25 20:52 J	-5332809.70	-5332809.63	-5332809.56	0.2700	0.2034
Mercury	-19307-07-18 18:14 J	-5330259.84	-5330259.74	-5330259.64	0.2704	0.1246
Mercury	-19303-01-22 13:55 J	-5328976.08	-5328975.92	-5328975.77	0.2630	0.0148
Mercury	-19294-07-21 12:43 J	-5325509.08	-5325508.97	-5325508.86	0.2703	0.0104
Mercury	-19290-01-25 18:28 J	-5324224.84	-5324224.73	-5324224.63	0.2632	0.1825
Mercury	-19281-07-23 07:11 J	-5320758.30	-5320758.20	-5320758.10	0.2702	0.1080

Venus	-19276-11-01 16:33 J	-5318830.91	-5318830.81	-5318830.72	0.2626	0.2108
Mercury	-19274-07-17 04:48 J	-5318208.36	-5318208.30	-5318208.23	0.2706	0.2162
Mercury	-19270-01-20 15:21 J	-5316924.97	-5316924.86	-5316924.75	0.2629	0.1778
Mercury	-19268-07-26 01:40 J	-5316007.49	-5316007.43	-5316007.37	0.2700	0.2272
Venus	-19268-10-30 10:19 J	-5315911.22	-5315911.07	-5315910.92	0.2627	0.0925
Mercury	-19261-07-18 23:16 J	-5313457.64	-5313457.53	-5313457.43	0.2704	0.1027
Mercury	-19257-01-23 20:09 J	-5312173.81	-5312173.66	-5312173.50	0.2630	0.0251
Mercury	-19248-07-21 17:31 J	-5308706.88	-5308706.77	-5308706.66	0.2703	0.0145
Mercury	-19244-01-26 00:43 J	-5307422.55	-5307422.47	-5307422.39	0.2632	0.2199
Mercury	-19235-07-24 12:00 J	-5303956.09	-5303956.00	-5303955.90	0.2701	0.1313
Mercury	-19228-07-17 09:50 J	-5301406.17	-5301406.09	-5301406.02	0.2706	0.1942
Mercury	-19224-01-20 21:36 J	-5300122.72	-5300122.60	-5300122.47	0.2629	0.1400
Mercury	-19222-07-27 06:43 J	-5299205.26	-5299205.22	-5299205.18	0.2700	0.2502
Mercury	-19215-07-20 04:04 J	-5296655.44	-5296655.33	-5296655.22	0.2704	0.0797
Mercury	-19211-01-24 02:38 J	-5295371.54	-5295371.39	-5295371.25	0.2630	0.0618
Mercury	-19202-07-22 22:33 J	-5291904.67	-5291904.56	-5291904.45	0.2703	0.0369
Mercury	-19198-01-27 06:57 J	-5290620.23	-5290620.21	-5290620.18	0.2632	0.2572
Mercury	-19189-07-24 17:02 J	-5287153.88	-5287153.79	-5287153.70	0.2701	0.1543
Mercury	-19182-07-18 14:38 J	-5284603.97	-5284603.89	-5284603.81	0.2705	0.1720
Mercury	-19178-01-22 04:04 J	-5283320.47	-5283320.33	-5283320.19	0.2629	0.1017
Mercury	-19169-07-20 08:52 J	-5279853.23	-5279853.13	-5279853.02	0.2704	0.0581
Mercury	-19165-01-25 08:52 J	-5278569.27	-5278569.13	-5278568.99	0.2631	0.0992
Mercury	-19156-07-23 03:21 J	-5275102.47	-5275102.36	-5275102.25	0.2703	0.0596
Mercury	-19149-07-16 01:11 J	-5272552.47	-5272552.45	-5272552.42	0.2707	0.2632
Venus	-19146-05-04 08:23 J	-5271530.31	-5271530.15	-5271530.00	0.2706	0.0620
Mercury	-19143-07-25 21:50 J	-5270351.67	-5270351.59	-5270351.50	0.2701	0.1779
Mercury	-19136-07-18 19:26 J	-5267801.78	-5267801.69	-5267801.59	0.2705	0.1503
Mercury	-19132-01-22 10:19 J	-5266518.21	-5266518.07	-5266517.92	0.2629	0.0638
Mercury	-19123-07-21 13:55 J	-5263051.03	-5263050.92	-5263050.81	0.2704	0.0347
Mercury	-19119-01-25 15:07 J	-5261767.00	-5261766.87	-5261766.74	0.2631	0.1365

Mercury	-19110-07-24 08:23 J	-5258300.26	-5258300.15	-5258300.05	0.2703	0.0827
Mercury	-19103-07-17 06:14 J	-5255750.29	-5255750.24	-5255750.20	0.2706	0.2416
Mercury	-19099-01-20 11:45 J	-5254467.08	-5254467.01	-5254466.94	0.2628	0.2299
Mercury	-19097-07-26 02:52 J	-5253549.45	-5253549.38	-5253549.31	0.2701	0.2012
Mercury	-19090-07-20 00:28 J	-5250999.58	-5250999.48	-5250999.38	0.2705	0.1276
Mercury	-19086-01-23 16:48 J	-5249715.95	-5249715.80	-5249715.65	0.2629	0.0251
Mercury	-19077-07-21 18:43 J	-5246248.83	-5246248.72	-5246248.61	0.2704	0.0137
Mercury	-19073-01-26 21:36 J	-5244964.72	-5244964.60	-5244964.49	0.2631	0.1742
Mercury	-19064-07-24 13:11 J	-5241498.05	-5241497.95	-5241497.84	0.2702	0.1057
Mercury	-19057-07-17 11:02 J	-5238948.10	-5238948.04	-5238947.98	0.2706	0.2195
Mercury	-19053-01-21 18:00 J	-5237664.85	-5237664.75	-5237664.64	0.2628	0.1914
Mercury	-19051-07-27 07:55 J	-5236747.23	-5236747.17	-5236747.11	0.2701	0.2247
Mercury	-19044-07-20 05:16 J	-5234197.38	-5234197.28	-5234197.18	0.2705	0.1054
Mercury	-19040-01-23 23:02 J	-5232913.69	-5232913.54	-5232913.38	0.2630	0.0150
Venus	-19033-11-01 20:38 J	-5230074.69	-5230074.64	-5230074.59	0.2626	0.2463
Mercury	-19031-07-22 23:45 J	-5229446.63	-5229446.51	-5229446.40	0.2704	0.0129
Mercury	-19027-01-27 03:50 J	-5228162.43	-5228162.34	-5228162.25	0.2631	0.2115
Venus	-19025-10-30 14:38 J	-5227155.05	-5227154.89	-5227154.74	0.2628	0.0554
Mercury	-19018-07-25 18:14 J	-5224695.84	-5224695.74	-5224695.64	0.2702	0.1287
Mercury	-19011-07-18 15:50 J	-5222145.91	-5222145.84	-5222145.76	0.2706	0.1980
Mercury	-19007-01-22 00:28 J	-5220862.60	-5220862.48	-5220862.35	0.2628	0.1525
Mercury	-19005-07-27 12:43 J	-5219945.01	-5219944.97	-5219944.92	0.2701	0.2485

19TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 19th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-18998-07-21 10:04 J	-5217395.18	-5217395.08	-5217394.97	0.2705	0.0838		
Mercury	-18994-01-25 05:31 J	-5216111.42	-5216111.27	-5216111.12	0.2630	0.0511		
Mercury	-18985-07-23 04:33 J	-5212644.42	-5212644.31	-5212644.20	0.2703	0.0336		
Mercury	-18981-01-28 10:04 J	-5211360.13	-5211360.08	-5211360.03	0.2631	0.2485		
Mercury	-18972-07-25 23:02 J	-5207893.63	-5207893.54	-5207893.44	0.2702	0.1521		
Mercury	-18965-07-18 20:52 J	-5205343.72	-5205343.63	-5205343.55	0.2706	0.1754		
Mercury	-18961-01-23 06:57 J	-5204060.35	-5204060.21	-5204060.07	0.2628	0.1136		
Mercury	-18952-07-21 15:07 J	-5200592.98	-5200592.87	-5200592.76	0.2705	0.0607		
Mercury	-18948-01-25 12:00 J	-5199309.15	-5199309.00	-5199308.86	0.2630	0.0896		
Mercury	-18939-07-24 09:36 J	-5195842.21	-5195842.10	-5195841.99	0.2703	0.0572		
Mercury	-18932-07-17 07:26 J	-5193292.20	-5193292.19	-5193292.17	0.2707	0.2668		
Mercury	-18926-07-27 04:04 J	-5191091.42	-5191091.33	-5191091.25	0.2702	0.1751		
Mercury	-18919-07-20 01:40 J	-5188541.52	-5188541.43	-5188541.34	0.2706	0.1532		
Mercury	-18915-01-23 13:26 J	-5187258.09	-5187257.94	-5187257.79	0.2629	0.0743		
Mercury	-18906-07-22 19:55 J	-5183790.78	-5183790.67	-5183790.56	0.2705	0.0385		
Venus	-18903-05-04 06:28 J	-5182774.38	-5182774.23	-5182774.07	0.2705	0.0791		
Mercury	-18902-01-26 18:14 J	-5182506.87	-5182506.74	-5182506.60	0.2630	0.1275		
Mercury	-18893-07-24 14:23 J	-5179040.01	-5179039.90	-5179039.79	0.2703	0.0796		
Mercury	-18886-07-18 12:28 J	-5176490.03	-5176489.98	-5176489.94	0.2707	0.2450		
Mercury	-18882-01-21 14:38 J	-5175206.95	-5175206.89	-5175206.84	0.2627	0.2428		
Mercury	-18880-07-27 08:52 J	-5174289.20	-5174289.13	-5174289.05	0.2702	0.1989		
Mercury	-18873-07-20 06:28 J	-5171739.32	-5171739.23	-5171739.13	0.2706	0.1312		
Mercury	-18869-01-24 19:40 J	-5170455.83	-5170455.68	-5170455.52	0.2629	0.0367		
Mercury	-18860-07-23 00:57 J	-5166988.57	-5166988.46	-5166988.35	0.2704	0.0154		
Mercury	-18856-01-27 00:43 J	-5165704.59	-5165704.47	-5165704.36	0.2630	0.1657		
Mercury	-18847-07-25 19:26 J	-5162237.80	-5162237.69	-5162237.59	0.2703	0.1031		
Mercury	-18840-07-18 17:16 J	-5159687.84	-5159687.78	-5159687.72	0.2707	0.2230		

Mercury	-18836-01-21 20:52 J	-5158404.72	-5158404.63	-5158404.53	0.2627	0.2041
Mercury	-18834-07-28 13:55 J	-5157486.98	-5157486.92	-5157486.86	0.2702	0.2223
Mercury	-18827-07-21 11:31 J	-5154937.12	-5154937.02	-5154936.92	0.2706	0.1085
Mercury	-18823-01-25 02:09 J	-5153653.56	-5153653.41	-5153653.26	0.2629	0.0037
Mercury	-18814-07-24 05:45 J	-5150186.37	-5150186.26	-5150186.15	0.2704	0.0106
Mercury	-18810-01-28 06:57 J	-5148902.31	-5148902.21	-5148902.12	0.2630	0.2032
Mercury	-18801-07-26 00:14 J	-5145435.59	-5145435.49	-5145435.39	0.2703	0.1265
Mercury	-18794-07-19 22:04 J	-5142885.65	-5142885.58	-5142885.51	0.2707	0.2007
Mercury	-18790-01-23 03:21 J	-5141602.48	-5141602.36	-5141602.24	0.2628	0.1649
Mercury	-18788-07-28 18:57 J	-5140684.76	-5140684.71	-5140684.67	0.2701	0.2461
Venus	-18782-10-31 18:28 J	-5138398.88	-5138398.73	-5138398.57	0.2628	0.0229
Mercury	-18781-07-21 16:19 J	-5138134.92	-5138134.82	-5138134.71	0.2705	0.0862
Mercury	-18777-01-26 08:23 J	-5136851.30	-5136851.15	-5136850.99	0.2629	0.0417
Mercury	-18768-07-24 10:48 J	-5133384.16	-5133384.05	-5133383.94	0.2704	0.0313
Mercury	-18764-01-28 13:11 J	-5132100.01	-5132099.95	-5132099.89	0.2631	0.2405
Mercury	-18755-07-27 05:16 J	-5128633.38	-5128633.28	-5128633.19	0.2703	0.1496
Mercury	-18748-07-20 02:52 J	-5126083.46	-5126083.38	-5126083.29	0.2707	0.1792
Mercury	-18744-01-23 09:50 J	-5124800.22	-5124800.09	-5124799.95	0.2628	0.1253
Mercury	-18742-07-29 23:45 J	-5123882.51	-5123882.51	-5123882.51	0.2701	0.2696
Mercury	-18735-07-22 21:21 J	-5121332.72	-5121332.61	-5121332.51	0.2705	0.0638
Mercury	-18731-01-26 14:52 J	-5120049.03	-5120048.88	-5120048.73	0.2629	0.0793
Mercury	-18722-07-25 15:36 J	-5116581.96	-5116581.85	-5116581.74	0.2704	0.0543
Mercury	-18715-07-18 13:40 J	-5114031.93	-5114031.93	-5114031.93	0.2708	0.2707
Mercury	-18709-07-27 10:04 J	-5111831.16	-5111831.08	-5111830.99	0.2702	0.1728
Mercury	-18702-07-21 07:55 J	-5109281.26	-5109281.17	-5109281.08	0.2706	0.1566
Mercury	-18698-01-24 16:19 J	-5107997.97	-5107997.82	-5107997.68	0.2628	0.0866
Mercury	-18689-07-23 02:09 J	-5104530.52	-5104530.41	-5104530.30	0.2705	0.0408
Mercury	-18685-01-27 21:07 J	-5103246.75	-5103246.62	-5103246.48	0.2630	0.1178
Mercury	-18676-07-25 20:38 J	-5099779.75	-5099779.64	-5099779.54	0.2704	0.0774
Mercury	-18669-07-18 18:28 J	-5097229.77	-5097229.73	-5097229.69	0.2707	0.2486

Mercury	-18665-01-22 17:16 J	-5095946.81	-5095946.78	-5095946.75	0.2627	0.2564
Mercury	-18663-07-28 15:07 J	-5095028.95	-5095028.87	-5095028.80	0.2702	0.1965
Venus	-18660-05-04 04:33 J	-5094018.46	-5094018.31	-5094018.16	0.2704	0.0971
Mercury	-18656-07-21 12:43 J	-5092479.06	-5092478.97	-5092478.87	0.2706	0.1343
Mercury	-18652-01-24 22:48 J	-5091195.71	-5091195.55	-5091195.40	0.2628	0.0473
Mercury	-18643-07-24 06:57 J	-5087728.32	-5087728.21	-5087728.09	0.2705	0.0206
Mercury	-18639-01-28 03:36 J	-5086444.47	-5086444.35	-5086444.23	0.2630	0.1563
Mercury	-18630-07-27 01:26 J	-5082977.54	-5082977.44	-5082977.34	0.2704	0.1002
Mercury	-18623-07-19 23:31 J	-5080427.58	-5080427.52	-5080427.46	0.2707	0.2261
Mercury	-18619-01-22 23:45 J	-5079144.59	-5079144.51	-5079144.42	0.2627	0.2162
Mercury	-18617-07-28 19:55 J	-5078226.73	-5078226.67	-5078226.60	0.2702	0.2199
Mercury	-18610-07-22 17:45 J	-5075676.86	-5075676.76	-5075676.66	0.2706	0.1116
Mercury	-18606-01-26 05:02 J	-5074393.44	-5074393.29	-5074393.13	0.2628	0.0090
Mercury	-18597-07-24 12:00 J	-5070926.11	-5070926.00	-5070925.89	0.2705	0.0052
Mercury	-18593-01-29 10:04 J	-5069642.19	-5069642.08	-5069641.98	0.2630	0.1946
Mercury	-18584-07-27 06:28 J	-5066175.33	-5066175.23	-5066175.14	0.2703	0.1239
Mercury	-18577-07-20 04:19 J	-5063625.39	-5063625.32	-5063625.25	0.2707	0.2042
Mercury	-18573-01-24 06:14 J	-5062342.35	-5062342.24	-5062342.12	0.2627	0.1765
Mercury	-18571-07-30 00:57 J	-5061424.51	-5061424.46	-5061424.42	0.2702	0.2435
Mercury	-18564-07-22 22:33 J	-5058874.66	-5058874.56	-5058874.45	0.2706	0.0887
Mercury	-18560-01-26 11:31 J	-5057591.17	-5057591.02	-5057590.87	0.2628	0.0313
Mercury	-18551-07-25 16:48 J	-5054123.91	-5054123.80	-5054123.69	0.2705	0.0299
Mercury	-18547-01-29 16:19 J	-5052839.89	-5052839.82	-5052839.75	0.2630	0.2324
Venus	-18539-10-31 22:48 J	-5049642.70	-5049642.55	-5049642.39	0.2629	0.0158
Mercury	-18538-07-28 11:16 J	-5049373.12	-5049373.03	-5049372.94	0.2703	0.1468
Mercury	-18531-07-21 09:07 J	-5046823.20	-5046823.12	-5046823.04	0.2707	0.1820
Mercury	-18527-01-24 12:43 J	-5045540.10	-5045539.97	-5045539.84	0.2627	0.1371
Mercury	-18525-07-30 05:45 J	-5044622.27	-5044622.26	-5044622.24	0.2702	0.2673
Mercury	-18518-07-24 03:21 J	-5042072.46	-5042072.36	-5042072.25	0.2706	0.0667
Mercury	-18514-01-27 17:45 J	-5040788.90	-5040788.76	-5040788.61	0.2629	0.0697

Mercury	-18505-07-25 21:50 J	-5037321.70	-5037321.59	-5037321.48	0.2705	0.0516
Mercury	-18492-07-28 16:19 J	-5032570.91	-5032570.82	-5032570.74	0.2703	0.1709
Mercury	-18485-07-21 14:09 J	-5030021.00	-5030020.91	-5030020.82	0.2707	0.1598
Mercury	-18481-01-25 19:11 J	-5028737.85	-5028737.70	-5028737.56	0.2627	0.0984
Mercury	-18472-07-24 08:23 J	-5025270.26	-5025270.15	-5025270.04	0.2706	0.0440
Mercury	-18468-01-28 00:14 J	-5023986.63	-5023986.49	-5023986.35	0.2629	0.1086
Mercury	-18459-07-27 02:38 J	-5020519.50	-5020519.39	-5020519.28	0.2704	0.0746
Mercury	-18452-07-20 00:43 J	-5017969.51	-5017969.47	-5017969.43	0.2708	0.2519
Mercury	-18446-07-29 21:07 J	-5015768.70	-5015768.62	-5015768.54	0.2703	0.1940
Mercury	-18439-07-22 18:57 J	-5013218.80	-5013218.71	-5013218.61	0.2707	0.1369
Mercury	-18435-01-26 01:26 J	-5011935.59	-5011935.44	-5011935.29	0.2627	0.0591
Mercury	-18426-07-25 13:11 J	-5008468.06	-5008467.95	-5008467.84	0.2705	0.0208
Mercury	-18422-01-29 06:28 J	-5007184.35	-5007184.23	-5007184.10	0.2629	0.1466
Venus	-18417-05-04 02:52 J	-5005262.53	-5005262.38	-5005262.24	0.2703	0.1124
Mercury	-18413-07-27 07:40 J	-5003717.29	-5003717.18	-5003717.08	0.2704	0.0981
Mercury	-18406-07-21 05:45 J	-5001167.32	-5001167.26	-5001167.21	0.2708	0.2300
Mercury	-18402-01-24 02:38 J	-4999884.47	-4999884.39	-4999884.32	0.2626	0.2294
Mercury	-18400-07-30 02:09 J	-4998966.48	-4998966.41	-4998966.35	0.2703	0.2178
Mercury	-18393-07-22 23:45 J	-4996416.61	-4996416.51	-4996416.41	0.2707	0.1150
Mercury	-18389-01-27 07:55 J	-4995133.32	-4995133.17	-4995133.01	0.2628	0.0193
Mercury	-18380-07-25 18:00 J	-4991665.86	-4991665.75	-4991665.63	0.2705	0.0113
Mercury	-18376-01-29 12:57 J	-4990382.07	-4990381.96	-4990381.85	0.2629	0.1852
Mercury	-18367-07-28 12:28 J	-4986915.08	-4986914.98	-4986914.88	0.2704	0.1212
Mercury	-18360-07-21 10:33 J	-4984365.13	-4984365.06	-4984364.99	0.2708	0.2075
Mercury	-18356-01-24 09:07 J	-4983082.23	-4983082.12	-4983082.01	0.2626	0.1886
Mercury	-18354-07-31 06:57 J	-4982164.25	-4982164.21	-4982164.16	0.2702	0.2415
Mercury	-18347-07-24 04:48 J	-4979614.41	-4979614.30	-4979614.20	0.2707	0.0921
Mercury	-18343-01-27 14:23 J	-4978331.05	-4978330.90	-4978330.75	0.2628	0.0203
Mercury	-18334-07-26 23:02 J	-4974863.65	-4974863.54	-4974863.43	0.2705	0.0256
Mercury	-18330-01-30 19:26 J	-4973579.77	-4973579.69	-4973579.62	0.2629	0.2242

Mercury	-18321-07-28 17:31 J	-4970112.87	-4970112.77	-4970112.68	0.2704	0.1450
Mercury	-18314-07-22 15:21 J	-4967562.94	-4967562.86	-4967562.78	0.2708	0.1850
Mercury	-18310-01-25 15:36 J	-4966279.98	-4966279.85	-4966279.73	0.2627	0.1496
Mercury	-18308-07-31 12:00 J	-4965362.02	-4965362.00	-4965361.98	0.2702	0.2654
Mercury	-18301-07-24 09:36 J	-4962812.21	-4962812.10	-4962811.99	0.2707	0.0693
Mercury	-18297-01-28 20:52 J	-4961528.78	-4961528.63	-4961528.48	0.2628	0.0601
Venus	-18296-11-01 03:07 J	-4960886.53	-4960886.37	-4960886.22	0.2630	0.0482
Mercury	-18288-07-27 03:50 J	-4958061.45	-4958061.34	-4958061.23	0.2705	0.0490
Venus	-18288-10-29 21:07 J	-4957966.66	-4957966.62	-4957966.59	0.2631	0.2542
Mercury	-18284-01-31 01:40 J	-4956777.44	-4956777.43	-4956777.43	0.2630	0.2624
Mercury	-18275-07-29 22:19 J	-4953310.66	-4953310.57	-4953310.48	0.2704	0.1679
Mercury	-18268-07-22 20:23 J	-4950760.74	-4950760.65	-4950760.57	0.2708	0.1627
Mercury	-18264-01-25 21:50 J	-4949477.73	-4949477.59	-4949477.44	0.2627	0.1097
Mercury	-18255-07-25 14:23 J	-4946010.01	-4946009.90	-4946009.79	0.2706	0.0470
Mercury	-18251-01-29 03:07 J	-4944726.51	-4944726.37	-4944726.23	0.2628	0.0983
Mercury	-18242-07-28 08:52 J	-4941259.24	-4941259.13	-4941259.02	0.2705	0.0719
Mercury	-18235-07-21 06:57 J	-4938709.24	-4938709.21	-4938709.17	0.2708	0.2552
Mercury	-18229-07-30 03:21 J	-4936508.44	-4936508.36	-4936508.29	0.2704	0.1919
Mercury	-18222-07-24 01:11 J	-4933958.55	-4933958.45	-4933958.36	0.2707	0.1402
Mercury	-18218-01-27 04:19 J	-4932675.46	-4932675.32	-4932675.17	0.2627	0.0699
Mercury	-18209-07-25 19:26 J	-4929207.80	-4929207.69	-4929207.58	0.2706	0.0237
Mercury	-18205-01-30 09:36 J	-4927924.23	-4927924.10	-4927923.97	0.2628	0.1379
Mercury	-18196-07-28 13:40 J	-4924457.03	-4924456.93	-4924456.82	0.2705	0.0958
Mercury	-18189-07-21 12:00 J	-4921907.06	-4921907.00	-4921906.95	0.2708	0.2332
Mercury	-18185-01-25 05:16 J	-4920624.33	-4920624.28	-4920624.22	0.2626	0.2422
Mercury	-18183-07-31 08:09 J	-4919706.22	-4919706.16	-4919706.09	0.2703	0.2155
Venus	-18182-05-07 12:43 J	-4919425.97	-4919425.97	-4919425.96	0.2703	0.2699
Mercury	-18176-07-24 06:00 J	-4917156.35	-4917156.25	-4917156.15	0.2707	0.1174
Venus	-18174-05-05 00:43 J	-4916506.61	-4916506.47	-4916506.33	0.2702	0.1316
Mercury	-18172-01-27 10:48 J	-4915873.20	-4915873.05	-4915872.90	0.2627	0.0301

Mercury	-18163-07-27 00:14 J	-4912405.60	-4912405.49	-4912405.38	0.2706	0.0042
Mercury	-18159-01-30 15:50 J	-4911121.95	-4911121.84	-4911121.72	0.2629	0.1769
Mercury	-18150-07-29 18:43 J	-4907654.82	-4907654.72	-4907654.62	0.2705	0.1190
Mercury	-18143-07-22 16:48 J	-4905104.87	-4905104.80	-4905104.73	0.2708	0.2105
Mercury	-18139-01-25 11:45 J	-4903822.11	-4903822.01	-4903821.91	0.2626	0.2026
Mercury	-18137-07-31 13:11 J	-4902904.00	-4902903.95	-4902903.90	0.2703	0.2399
Mercury	-18130-07-25 10:48 J	-4900354.15	-4900354.05	-4900353.94	0.2707	0.0954
Mercury	-18126-01-28 17:16 J	-4899070.93	-4899070.78	-4899070.63	0.2627	0.0096
Mercury	-18117-07-27 05:16 J	-4895603.39	-4895603.28	-4895603.17	0.2706	0.0246
Mercury	-18113-01-31 22:19 J	-4894319.66	-4894319.57	-4894319.48	0.2629	0.2157
Mercury	-18104-07-29 23:31 J	-4890852.61	-4890852.52	-4890852.42	0.2704	0.1425
Mercury	-18097-07-22 21:36 J	-4888302.68	-4888302.60	-4888302.52	0.2708	0.1882
Mercury	-18093-01-26 18:14 J	-4887019.86	-4887019.74	-4887019.62	0.2626	0.1617
Mercury	-18091-08-01 18:00 J	-4886101.77	-4886101.75	-4886101.73	0.2703	0.2631
Mercury	-18084-07-25 15:50 J	-4883551.95	-4883551.84	-4883551.74	0.2707	0.0720
Mercury	-18080-01-28 23:31 J	-4882268.67	-4882268.52	-4882268.36	0.2627	0.0496
Mercury	-18071-07-28 10:04 J	-4878801.19	-4878801.08	-4878800.97	0.2706	0.0461
Mercury	-18067-02-01 04:33 J	-4877517.34	-4877517.31	-4877517.27	0.2629	0.2537
Mercury	-18058-07-31 04:33 J	-4874050.40	-4874050.31	-4874050.23	0.2704	0.1661
Venus	-18053-11-01 07:26 J	-4872130.34	-4872130.19	-4872130.04	0.2631	0.0833
Mercury	-18051-07-24 02:23 J	-4871500.48	-4871500.40	-4871500.31	0.2708	0.1660
Mercury	-18047-01-27 00:43 J	-4870217.60	-4870217.47	-4870217.33	0.2626	0.1212
Venus	-18045-10-30 01:26 J	-4869210.53	-4869210.44	-4869210.35	0.2632	0.2182
Mercury	-18038-07-26 20:38 J	-4866749.75	-4866749.64	-4866749.53	0.2707	0.0493
Mercury	-18034-01-30 06:00 J	-4865466.39	-4865466.25	-4865466.10	0.2628	0.0894
Mercury	-18025-07-28 14:52 J	-4861998.98	-4861998.88	-4861998.77	0.2706	0.0703
Mercury	-18018-07-22 13:11 J	-4859448.98	-4859448.95	-4859448.92	0.2709	0.2584
Mercury	-18012-07-31 09:21 J	-4857248.19	-4857248.11	-4857248.03	0.2704	0.1895
Mercury	-18005-07-24 07:26 J	-4854698.29	-4854698.19	-4854698.10	0.2708	0.1434
Mercury	-18001-01-28 07:11 J	-4853415.35	-4853415.20	-4853415.05	0.2626	0.0809

18TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 18th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-17992-07-27 01:40 J		-4849947.55	-4849947.43	-4849947.32	0.2707	0.0281	
Mercury	-17988-01-30 12:28 J		-4848664.11	-4848663.98	-4848663.85	0.2628	0.1284	
Mercury	-17979-07-29 19:55 J		-4845196.78	-4845196.67	-4845196.57	0.2705	0.0927	
Mercury	-17972-07-22 18:00 J		-4842646.80	-4842646.75	-4842646.69	0.2709	0.2363	
Mercury	-17968-01-25 07:55 J		-4841364.20	-4841364.17	-4841364.13	0.2625	0.2556	
Mercury	-17966-08-01 14:09 J		-4840445.97	-4840445.91	-4840445.84	0.2704	0.2137	
Mercury	-17959-07-25 12:14 J		-4837896.09	-4837895.99	-4837895.89	0.2708	0.1203	
Mercury	-17955-01-28 13:40 J		-4836613.08	-4836612.93	-4836612.78	0.2626	0.0411	
Mercury	-17946-07-28 06:28 J		-4833145.34	-4833145.23	-4833145.12	0.2707	0.0031	
Mercury	-17942-01-31 18:57 J		-4831861.83	-4831861.71	-4831861.59	0.2628	0.1682	
Venus	-17939-05-07 11:02 J		-4830670.09	-4830670.04	-4830669.99	0.2702	0.2546	
Mercury	-17933-07-30 00:43 J		-4828394.57	-4828394.47	-4828394.37	0.2705	0.1166	
Venus	-17931-05-04 22:48 J		-4827750.68	-4827750.55	-4827750.41	0.2701	0.1473	
Mercury	-17926-07-23 23:02 J		-4825844.61	-4825844.54	-4825844.48	0.2709	0.2137	
Mercury	-17922-01-26 14:38 J		-4824561.98	-4824561.89	-4824561.80	0.2625	0.2144	
Mercury	-17920-08-01 19:11 J		-4823643.75	-4823643.70	-4823643.65	0.2704	0.2369	
Mercury	-17913-07-25 17:02 J		-4821093.89	-4821093.79	-4821093.68	0.2708	0.0978	
Mercury	-17909-01-29 20:09 J		-4819810.82	-4819810.66	-4819810.51	0.2627	0.0039	
Mercury	-17900-07-28 11:16 J		-4816343.14	-4816343.03	-4816342.92	0.2706	0.0224	

Mercury	-17896-02-01 01:11 J	-4815059.54	-4815059.45	-4815059.35	0.2628	0.2068
Mercury	-17887-07-31 05:45 J	-4811592.36	-4811592.26	-4811592.17	0.2705	0.1402
Mercury	-17880-07-24 03:50 J	-4809042.42	-4809042.34	-4809042.26	0.2709	0.1913
Mercury	-17876-01-26 21:07 J	-4807759.74	-4807759.62	-4807759.51	0.2625	0.1737
Mercury	-17874-08-03 00:14 J	-4806841.52	-4806841.49	-4806841.47	0.2704	0.2615
Mercury	-17867-07-26 22:04 J	-4804291.69	-4804291.58	-4804291.48	0.2708	0.0748
Mercury	-17863-01-30 02:38 J	-4803008.54	-4803008.39	-4803008.24	0.2627	0.0396
Mercury	-17854-07-29 16:19 J	-4799540.93	-4799540.82	-4799540.71	0.2706	0.0444
Mercury	-17850-02-02 07:40 J	-4798257.23	-4798257.18	-4798257.13	0.2628	0.2464
Mercury	-17841-07-31 10:33 J	-4794790.15	-4794790.06	-4794789.97	0.2705	0.1639
Mercury	-17834-07-25 08:38 J	-4792240.22	-4792240.14	-4792240.05	0.2709	0.1688
Mercury	-17830-01-28 03:36 J	-4790957.49	-4790957.35	-4790957.22	0.2626	0.1335
Mercury	-17821-07-27 02:52 J	-4787489.49	-4787489.38	-4787489.27	0.2707	0.0516
Mercury	-17817-01-31 08:52 J	-4786206.27	-4786206.13	-4786205.98	0.2627	0.0790
Venus	-17810-11-02 11:31 J	-4783374.16	-4783374.02	-4783373.88	0.2632	0.1165
Mercury	-17808-07-29 21:07 J	-4782738.73	-4782738.62	-4782738.51	0.2706	0.0670
Venus	-17802-10-31 05:45 J	-4780454.37	-4780454.26	-4780454.15	0.2633	0.1844
Mercury	-17801-07-22 19:26 J	-4780188.71	-4780188.69	-4780188.66	0.2710	0.2620
Mercury	-17795-08-01 15:36 J	-4777987.93	-4777987.85	-4777987.77	0.2705	0.1877
Mercury	-17788-07-25 13:40 J	-4775438.03	-4775437.93	-4775437.84	0.2708	0.1465
Mercury	-17784-01-28 09:50 J	-4774155.23	-4774155.09	-4774154.94	0.2626	0.0935
Mercury	-17775-07-28 07:40 J	-4770687.29	-4770687.18	-4770687.07	0.2707	0.0293
Mercury	-17771-01-31 15:21 J	-4769403.99	-4769403.86	-4769403.72	0.2627	0.1189
Mercury	-17762-07-31 01:55 J	-4765936.52	-4765936.42	-4765936.31	0.2706	0.0909
Mercury	-17755-07-24 00:14 J	-4763386.53	-4763386.49	-4763386.44	0.2710	0.2395
Mercury	-17749-08-01 20:23 J	-4761185.72	-4761185.65	-4761185.58	0.2705	0.2111
Mercury	-17742-07-26 18:28 J	-4758635.83	-4758635.73	-4758635.63	0.2708	0.1234
Mercury	-17738-01-29 16:33 J	-4757352.97	-4757352.81	-4757352.66	0.2626	0.0525
Mercury	-17729-07-28 12:43 J	-4753885.09	-4753884.97	-4753884.86	0.2707	0.0112
Mercury	-17725-02-01 21:50 J	-4752601.71	-4752601.59	-4752601.47	0.2627	0.1583

Mercury	-17716-07-31 06:57 J	-4749134.31	-4749134.21	-4749134.11	0.2706	0.1140
Mercury	-17709-07-24 05:16 J	-4746584.35	-4746584.28	-4746584.22	0.2709	0.2170
Mercury	-17705-01-27 17:16 J	-4745301.86	-4745301.78	-4745301.70	0.2625	0.2270
Mercury	-17703-08-03 01:26 J	-4744383.50	-4744383.44	-4744383.39	0.2704	0.2353
Venus	-17696-05-07 08:52 J	-4741914.21	-4741914.13	-4741914.05	0.2701	0.2352
Mercury	-17696-07-26 23:16 J	-4741833.63	-4741833.53	-4741833.43	0.2708	0.1004
Mercury	-17692-01-29 23:02 J	-4740550.70	-4740550.54	-4740550.39	0.2626	0.0111
Venus	-17688-05-04 20:52 J	-4738994.76	-4738994.63	-4738994.50	0.2699	0.1648
Mercury	-17683-07-29 17:31 J	-4737082.88	-4737082.77	-4737082.66	0.2707	0.0178
Mercury	-17679-02-02 04:19 J	-4735799.42	-4735799.32	-4735799.22	0.2627	0.1986
Mercury	-17670-08-01 11:45 J	-4732332.10	-4732332.01	-4732331.91	0.2706	0.1378
Mercury	-17663-07-25 10:04 J	-4729782.16	-4729782.08	-4729782.00	0.2709	0.1941
Mercury	-17659-01-27 23:45 J	-4728499.62	-4728499.51	-4728499.40	0.2625	0.1859
Mercury	-17657-08-03 06:14 J	-4727581.27	-4727581.24	-4727581.21	0.2704	0.2590
Mercury	-17650-07-28 04:04 J	-4725031.43	-4725031.33	-4725031.22	0.2708	0.0781
Mercury	-17646-01-31 05:31 J	-4723748.43	-4723748.27	-4723748.12	0.2626	0.0297
Mercury	-17637-07-29 22:19 J	-4720280.68	-4720280.57	-4720280.46	0.2707	0.0419
Mercury	-17633-02-03 10:33 J	-4718997.12	-4718997.06	-4718996.99	0.2628	0.2384
Mercury	-17624-08-01 16:48 J	-4715529.89	-4715529.80	-4715529.71	0.2706	0.1614
Mercury	-17617-07-25 14:52 J	-4712979.96	-4712979.88	-4712979.79	0.2709	0.1718
Mercury	-17613-01-29 06:14 J	-4711697.37	-4711697.24	-4711697.11	0.2625	0.1452
Mercury	-17604-07-28 09:07 J	-4708229.23	-4708229.12	-4708229.01	0.2708	0.0547
Mercury	-17600-01-31 12:00 J	-4706946.15	-4706946.00	-4706945.86	0.2626	0.0698
Mercury	-17591-07-31 03:21 J	-4703478.47	-4703478.36	-4703478.25	0.2707	0.0650
Mercury	-17584-07-24 01:40 J	-4700928.45	-4700928.43	-4700928.41	0.2710	0.2649
Mercury	-17578-08-02 21:36 J	-4698727.68	-4698727.60	-4698727.52	0.2705	0.1855
Mercury	-17571-07-26 19:40 J	-4696177.77	-4696177.68	-4696177.58	0.2709	0.1493
Mercury	-17567-01-29 12:43 J	-4694895.11	-4694894.97	-4694894.82	0.2625	0.1044
Venus	-17567-11-02 15:50 J	-4694617.97	-4694617.84	-4694617.71	0.2633	0.1516
Venus	-17559-10-31 09:50 J	-4691698.22	-4691698.09	-4691697.96	0.2634	0.1518

Mercury	-17558-07-29 13:55 J	-4691427.03	-4691426.92	-4691426.81	0.2708	0.0313
Mercury	-17554-02-01 18:14 J	-4690143.88	-4690143.74	-4690143.60	0.2626	0.1092
Mercury	-17545-07-31 08:09 J	-4686676.26	-4686676.16	-4686676.05	0.2707	0.0883
Mercury	-17538-07-25 06:28 J	-4684126.27	-4684126.23	-4684126.18	0.2710	0.2428
Mercury	-17532-08-03 02:38 J	-4681925.46	-4681925.39	-4681925.32	0.2705	0.2093
Mercury	-17525-07-27 00:43 J	-4679375.57	-4679375.47	-4679375.38	0.2709	0.1264
Mercury	-17521-01-30 19:11 J	-4678092.85	-4678092.70	-4678092.55	0.2625	0.0634
Mercury	-17512-07-29 18:43 J	-4674624.83	-4674624.72	-4674624.61	0.2708	0.0120
Mercury	-17508-02-02 00:43 J	-4673341.60	-4673341.47	-4673341.34	0.2627	0.1492
Mercury	-17499-08-01 13:11 J	-4669874.06	-4669873.95	-4669873.85	0.2706	0.1122
Mercury	-17492-07-25 11:31 J	-4667324.09	-4667324.02	-4667323.96	0.2710	0.2203
Mercury	-17488-01-27 19:55 J	-4666041.73	-4666041.67	-4666041.61	0.2624	0.2401
Mercury	-17486-08-04 07:26 J	-4665123.24	-4665123.19	-4665123.14	0.2705	0.2332
Mercury	-17479-07-28 05:31 J	-4662573.37	-4662573.27	-4662573.17	0.2709	0.1033
Mercury	-17475-01-31 01:40 J	-4661290.58	-4661290.43	-4661290.27	0.2625	0.0230
Mercury	-17466-07-30 23:45 J	-4657822.62	-4657822.51	-4657822.40	0.2707	0.0164
Mercury	-17462-02-03 06:57 J	-4656539.31	-4656539.21	-4656539.10	0.2627	0.1892
Venus	-17453-05-07 06:57 J	-4653158.30	-4653158.21	-4653158.12	0.2700	0.2190
Mercury	-17453-08-01 18:00 J	-4653071.85	-4653071.75	-4653071.65	0.2706	0.1355
Mercury	-17446-07-26 16:19 J	-4650521.90	-4650521.82	-4650521.75	0.2710	0.1976
Venus	-17445-05-04 18:43 J	-4650238.83	-4650238.72	-4650238.60	0.2698	0.1836
Mercury	-17442-01-29 02:23 J	-4649239.50	-4649239.40	-4649239.30	0.2624	0.1987
Mercury	-17440-08-04 12:14 J	-4648321.02	-4648320.99	-4648320.95	0.2705	0.2574
Mercury	-17433-07-28 10:19 J	-4645771.17	-4645771.07	-4645770.96	0.2709	0.0805
Mercury	-17429-02-01 08:09 J	-4644488.31	-4644488.16	-4644488.00	0.2626	0.0184
Mercury	-17420-07-31 04:33 J	-4641020.42	-4641020.31	-4641020.20	0.2707	0.0387
Mercury	-17416-02-03 13:26 J	-4639737.01	-4639736.94	-4639736.86	0.2627	0.2291
Mercury	-17407-08-02 22:48 J	-4636269.64	-4636269.55	-4636269.46	0.2706	0.1595
Mercury	-17400-07-26 21:07 J	-4633719.70	-4633719.62	-4633719.54	0.2710	0.1744
Mercury	-17396-01-29 09:07 J	-4632437.25	-4632437.12	-4632437.00	0.2624	0.1572

Mercury	-17387-07-29 15:21 J	-4628968.97	-4628968.86	-4628968.76	0.2708	0.0580
Mercury	-17383-02-01 14:38 J	-4627686.04	-4627685.89	-4627685.74	0.2626	0.0590
Mercury	-17374-08-01 09:21 J	-4624218.21	-4624218.11	-4624218.00	0.2707	0.0631
Mercury	-17367-07-25 07:55 J	-4621668.18	-4621668.17	-4621668.15	0.2711	0.2680
Mercury	-17361-08-03 03:50 J	-4619467.42	-4619467.34	-4619467.26	0.2706	0.1831
Mercury	-17354-07-28 01:55 J	-4616917.51	-4616917.42	-4616917.33	0.2710	0.1521
Mercury	-17350-01-30 15:36 J	-4615634.99	-4615634.85	-4615634.71	0.2625	0.1158
Mercury	-17341-07-29 20:09 J	-4612166.77	-4612166.66	-4612166.55	0.2708	0.0336
Mercury	-17337-02-02 21:07 J	-4610883.76	-4610883.62	-4610883.48	0.2626	0.0997
Mercury	-17328-08-01 14:23 J	-4607416.01	-4607415.90	-4607415.80	0.2707	0.0858
Venus	-17324-11-02 20:09 J	-4605861.77	-4605861.66	-4605861.55	0.2634	0.1845
Mercury	-17321-07-25 12:43 J	-4604866.01	-4604865.97	-4604865.92	0.2710	0.2460
Venus	-17316-10-31 14:09 J	-4602942.05	-4602941.91	-4602941.76	0.2635	0.1161
Mercury	-17315-08-04 08:38 J	-4602665.21	-4602665.14	-4602665.07	0.2706	0.2068
Mercury	-17308-07-28 06:57 J	-4600115.31	-4600115.21	-4600115.12	0.2709	0.1292
Mercury	-17304-01-30 22:04 J	-4598832.73	-4598832.58	-4598832.44	0.2625	0.0753
Mercury	-17295-07-31 00:57 J	-4595364.57	-4595364.46	-4595364.35	0.2708	0.0122
Mercury	-17291-02-03 03:36 J	-4594081.48	-4594081.35	-4594081.22	0.2626	0.1399
Mercury	-17282-08-02 19:11 J	-4590613.80	-4590613.70	-4590613.60	0.2707	0.1096
Mercury	-17275-07-26 17:45 J	-4588063.82	-4588063.76	-4588063.70	0.2710	0.2234
Mercury	-17271-01-28 22:33 J	-4586781.60	-4586781.56	-4586781.53	0.2624	0.2539
Mercury	-17269-08-04 13:26 J	-4585862.99	-4585862.94	-4585862.88	0.2706	0.2313
Mercury	-17262-07-29 11:45 J	-4583313.11	-4583313.01	-4583312.91	0.2709	0.1062
Mercury	-17258-02-01 04:19 J	-4582030.47	-4582030.32	-4582030.16	0.2625	0.0348
Mercury	-17249-07-31 06:00 J	-4578562.37	-4578562.25	-4578562.14	0.2708	0.0168
Mercury	-17245-02-04 10:04 J	-4577279.19	-4577279.08	-4577278.97	0.2626	0.1806
Mercury	-17236-08-03 00:00 J	-4573811.59	-4573811.50	-4573811.40	0.2707	0.1338
Mercury	-17229-07-26 22:33 J	-4571261.63	-4571261.56	-4571261.49	0.2710	0.2004
Mercury	-17225-01-30 05:02 J	-4569979.38	-4569979.29	-4569979.20	0.2624	0.2118
Mercury	-17223-08-05 18:28 J	-4569060.76	-4569060.73	-4569060.70	0.2706	0.2553

Mercury	-17216-07-29 16:33 J	-4566510.91	-4566510.81	-4566510.70	0.2709	0.0830
Mercury	-17212-02-01 10:48 J	-4565228.20	-4565228.05	-4565227.89	0.2625	0.0108
Venus	-17210-05-08 04:48 J	-4564402.40	-4564402.30	-4564402.19	0.2699	0.2006
Mercury	-17203-08-01 10:48 J	-4561760.16	-4561760.05	-4561759.94	0.2708	0.0363
Venus	-17202-05-05 16:48 J	-4561482.91	-4561482.80	-4561482.69	0.2697	0.1993
Mercury	-17199-02-04 16:19 J	-4560476.90	-4560476.82	-4560476.74	0.2626	0.2205
Mercury	-17190-08-04 05:02 J	-4557009.38	-4557009.29	-4557009.20	0.2707	0.1571
Mercury	-17183-07-28 03:21 J	-4554459.44	-4554459.36	-4554459.28	0.2710	0.1778
Mercury	-17179-01-30 11:31 J	-4553177.13	-4553177.02	-4553176.90	0.2624	0.1701
Mercury	-17170-07-30 21:36 J	-4549708.71	-4549708.60	-4549708.50	0.2709	0.0606
Mercury	-17166-02-02 17:31 J	-4548425.93	-4548425.77	-4548425.62	0.2625	0.0490
Mercury	-17157-08-01 15:36 J	-4544957.96	-4544957.85	-4544957.74	0.2708	0.0601
Mercury	-17153-02-05 22:48 J	-4543674.56	-4543674.55	-4543674.53	0.2626	0.2606
Mercury	-17144-08-04 09:50 J	-4540207.17	-4540207.09	-4540207.01	0.2707	0.1811
Mercury	-17137-07-28 08:09 J	-4537657.25	-4537657.16	-4537657.07	0.2710	0.1550
Mercury	-17133-01-31 18:14 J	-4536374.88	-4536374.74	-4536374.61	0.2624	0.1279
Mercury	-17124-07-31 02:23 J	-4532906.51	-4532906.40	-4532906.29	0.2709	0.0372
Mercury	-17120-02-02 23:45 J	-4531623.65	-4531623.51	-4531623.36	0.2625	0.0894
Mercury	-17111-08-02 20:23 J	-4528155.75	-4528155.65	-4528155.54	0.2708	0.0840
Mercury	-17104-07-26 18:57 J	-4525605.75	-4525605.71	-4525605.66	0.2711	0.2490
Mercury	-17098-08-05 14:52 J	-4523404.95	-4523404.88	-4523404.81	0.2706	0.2052
Mercury	-17091-07-29 13:11 J	-4520855.05	-4520854.95	-4520854.86	0.2710	0.1323
Mercury	-17087-02-01 00:43 J	-4519572.62	-4519572.47	-4519572.32	0.2624	0.0866
Venus	-17081-11-03 00:14 J	-4517105.57	-4517105.49	-4517105.40	0.2635	0.2179
Mercury	-17078-08-01 07:11 J	-4516104.31	-4516104.20	-4516104.09	0.2709	0.0135
Mercury	-17074-02-04 06:28 J	-4514821.37	-4514821.23	-4514821.10	0.2626	0.1309
Venus	-17073-10-31 18:14 J	-4514185.89	-4514185.74	-4514185.59	0.2637	0.0858
Mercury	-17065-08-03 01:26 J	-4511353.54	-4511353.44	-4511353.34	0.2708	0.1072
Mercury	-17058-07-28 00:00 J	-4508803.56	-4508803.50	-4508803.44	0.2711	0.2262
Mercury	-17052-08-05 19:40 J	-4506602.74	-4506602.68	-4506602.62	0.2706	0.2289

Mercury	-17045-07-29 18:00 J	-4504052.85	-4504052.75	-4504052.65	0.2710	0.1085
Mercury	-17041-02-02 07:11 J	-4502770.35	-4502770.20	-4502770.05	0.2624	0.0449
Mercury	-17032-08-01 12:00 J	-4499302.11	-4499302.00	-4499301.89	0.2709	0.0119
Mercury	-17028-02-04 12:43 J	-4498019.08	-4498018.97	-4498018.85	0.2626	0.1713
Mercury	-17019-08-04 06:14 J	-4494551.34	-4494551.24	-4494551.14	0.2707	0.1308
Mercury	-17012-07-28 04:48 J	-4492001.37	-4492001.30	-4492001.23	0.2711	0.2034
Mercury	-17008-01-30 07:40 J	-4490719.26	-4490719.18	-4490719.10	0.2623	0.2245
Mercury	-17006-08-07 00:43 J	-4489800.51	-4489800.47	-4489800.44	0.2706	0.2531

17TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 17th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-16999-07-30 22:48 J	-4487250.65	-4487250.55	-4487250.44	0.2710	0.0857		
Mercury	-16995-02-02 13:40 J	-4485968.08	-4485967.93	-4485967.77	0.2624	0.0047		
Mercury	-16986-08-02 17:02 J	-4482499.90	-4482499.79	-4482499.68	0.2709	0.0354		
Mercury	-16982-02-05 19:11 J	-4481216.78	-4481216.70	-4481216.61	0.2626	0.2123		
Mercury	-16973-08-04 11:16 J	-4477749.12	-4477749.03	-4477748.94	0.2707	0.1551		
Venus	-16967-05-08 02:52 J	-4475646.50	-4475646.38	-4475646.26	0.2697	0.1822		
Mercury	-16966-07-29 09:36 J	-4475199.18	-4475199.10	-4475199.02	0.2711	0.1807		
Mercury	-16962-01-31 14:23 J	-4473917.02	-4473916.90	-4473916.79	0.2623	0.1819		
Venus	-16959-05-05 14:38 J	-4472726.98	-4472726.89	-4472726.80	0.2695	0.2191		
Mercury	-16953-07-31 03:36 J	-4470448.45	-4470448.35	-4470448.24	0.2709	0.0626		
Mercury	-16949-02-03 20:09 J	-4469165.81	-4469165.66	-4469165.50	0.2625	0.0382		

Mercury	-16940-08-02 21:50 J	-4465697.70	-4465697.59	-4465697.48	0.2708	0.0574
Mercury	-16936-02-06 01:40 J	-4464414.47	-4464414.43	-4464414.39	0.2626	0.2529
Mercury	-16927-08-05 16:04 J	-4460946.91	-4460946.83	-4460946.75	0.2707	0.1792
Mercury	-16920-07-29 14:23 J	-4458396.98	-4458396.90	-4458396.81	0.2710	0.1579
Mercury	-16916-01-31 20:52 J	-4457114.77	-4457114.63	-4457114.50	0.2623	0.1408
Mercury	-16907-08-01 08:38 J	-4453646.25	-4453646.14	-4453646.04	0.2709	0.0407
Mercury	-16903-02-04 02:38 J	-4452363.53	-4452363.39	-4452363.24	0.2625	0.0801
Mercury	-16894-08-04 02:38 J	-4448895.49	-4448895.39	-4448895.28	0.2708	0.0815
Mercury	-16887-07-28 01:26 J	-4446345.48	-4446345.44	-4446345.41	0.2711	0.2522
Mercury	-16881-08-05 20:52 J	-4444144.70	-4444144.63	-4444144.55	0.2707	0.2032
Mercury	-16874-07-30 19:11 J	-4441594.79	-4441594.70	-4441594.60	0.2710	0.1350
Mercury	-16870-02-02 03:21 J	-4440312.51	-4440312.36	-4440312.22	0.2624	0.0983
Mercury	-16861-08-01 13:26 J	-4436844.05	-4436843.94	-4436843.83	0.2709	0.0161
Mercury	-16857-02-05 09:07 J	-4435561.26	-4435561.12	-4435560.98	0.2625	0.1203
Mercury	-16848-08-04 07:40 J	-4432093.29	-4432093.18	-4432093.08	0.2708	0.1051
Mercury	-16841-07-28 06:14 J	-4429543.30	-4429543.24	-4429543.19	0.2711	0.2294
Venus	-16838-11-04 04:33 J	-4428349.36	-4428349.31	-4428349.27	0.2636	0.2511
Mercury	-16835-08-07 01:55 J	-4427342.48	-4427342.42	-4427342.36	0.2707	0.2271
Venus	-16830-11-01 22:48 J	-4425429.71	-4425429.55	-4425429.40	0.2638	0.0510
Mercury	-16828-07-31 00:14 J	-4424792.59	-4424792.49	-4424792.39	0.2710	0.1121
Mercury	-16824-02-02 09:50 J	-4423510.24	-4423510.09	-4423509.93	0.2624	0.0561
Mercury	-16815-08-02 18:14 J	-4420041.85	-4420041.74	-4420041.63	0.2709	0.0082
Mercury	-16811-02-05 15:36 J	-4418758.97	-4418758.85	-4418758.73	0.2625	0.1619
Mercury	-16802-08-05 12:28 J	-4415291.08	-4415290.98	-4415290.88	0.2708	0.1289
Mercury	-16795-07-29 11:02 J	-4412741.11	-4412741.04	-4412740.97	0.2711	0.2067
Mercury	-16791-01-31 10:19 J	-4411459.13	-4411459.07	-4411459.00	0.2623	0.2366
Mercury	-16789-08-07 06:43 J	-4410540.26	-4410540.22	-4410540.18	0.2707	0.2510
Mercury	-16782-08-01 05:02 J	-4407990.39	-4407990.29	-4407990.19	0.2710	0.0884
Mercury	-16778-02-03 16:19 J	-4406707.97	-4406707.82	-4406707.66	0.2624	0.0155
Mercury	-16769-08-02 23:02 J	-4403239.65	-4403239.54	-4403239.43	0.2709	0.0326

Mercury	-16765-02-06 22:04 J	-4401956.68	-4401956.58	-4401956.48	0.2625	0.2028
Mercury	-16756-08-05 17:16 J	-4398488.87	-4398488.78	-4398488.69	0.2708	0.1528
Mercury	-16749-07-29 15:50 J	-4395938.92	-4395938.84	-4395938.76	0.2711	0.1833
Mercury	-16745-02-01 16:48 J	-4394656.90	-4394656.80	-4394656.69	0.2623	0.1949
Mercury	-16736-08-01 09:50 J	-4391188.19	-4391188.09	-4391187.98	0.2710	0.0653
Mercury	-16732-02-03 23:02 J	-4389905.70	-4389905.54	-4389905.39	0.2624	0.0286
Venus	-16724-05-08 00:43 J	-4386890.59	-4386890.47	-4386890.34	0.2696	0.1658
Mercury	-16723-08-04 04:04 J	-4386437.44	-4386437.33	-4386437.22	0.2709	0.0553
Mercury	-16719-02-07 04:33 J	-4385154.36	-4385154.31	-4385154.26	0.2625	0.2444
Venus	-16716-05-05 12:43 J	-4383971.05	-4383970.97	-4383970.89	0.2694	0.2344
Mercury	-16710-08-06 22:19 J	-4381686.66	-4381686.57	-4381686.49	0.2708	0.1769
Mercury	-16703-07-30 20:38 J	-4379136.72	-4379136.64	-4379136.55	0.2711	0.1605
Mercury	-16699-02-01 23:31 J	-4377854.65	-4377854.52	-4377854.39	0.2623	0.1517
Mercury	-16690-08-02 14:52 J	-4374385.99	-4374385.88	-4374385.78	0.2710	0.0425
Mercury	-16686-02-05 05:16 J	-4373103.43	-4373103.28	-4373103.12	0.2624	0.0698
Mercury	-16677-08-04 08:52 J	-4369635.23	-4369635.13	-4369635.02	0.2709	0.0790
Mercury	-16670-07-29 07:40 J	-4367085.22	-4367085.18	-4367085.15	0.2712	0.2552
Mercury	-16664-08-07 03:07 J	-4364884.44	-4364884.37	-4364884.30	0.2708	0.2008
Mercury	-16657-07-31 01:26 J	-4362334.53	-4362334.44	-4362334.34	0.2711	0.1379
Mercury	-16653-02-03 06:00 J	-4361052.39	-4361052.25	-4361052.11	0.2623	0.1095
Mercury	-16644-08-02 19:40 J	-4357583.79	-4357583.68	-4357583.57	0.2710	0.0183
Mercury	-16640-02-05 12:00 J	-4356301.14	-4356301.00	-4356300.86	0.2624	0.1115
Mercury	-16631-08-05 13:40 J	-4352833.03	-4352832.93	-4352832.82	0.2709	0.1036
Mercury	-16624-07-29 12:28 J	-4350283.04	-4350282.98	-4350282.93	0.2712	0.2324
Mercury	-16618-08-08 07:55 J	-4348082.23	-4348082.17	-4348082.11	0.2707	0.2253
Mercury	-16611-08-01 06:28 J	-4345532.33	-4345532.23	-4345532.13	0.2711	0.1144
Mercury	-16607-02-03 12:28 J	-4344250.13	-4344249.98	-4344249.83	0.2623	0.0675
Mercury	-16598-08-04 00:28 J	-4340781.59	-4340781.48	-4340781.37	0.2710	0.0058
Mercury	-16594-02-06 18:14 J	-4339498.86	-4339498.74	-4339498.61	0.2624	0.1523
Venus	-16587-11-02 02:38 J	-4336673.54	-4336673.39	-4336673.23	0.2639	0.0211

Mercury	-16585-08-05 18:43 J	-4336030.82	-4336030.72	-4336030.63	0.2709	0.1268
Mercury	-16578-07-30 17:16 J	-4333480.85	-4333480.78	-4333480.71	0.2712	0.2094
Mercury	-16574-02-01 12:57 J	-4332199.01	-4332198.96	-4332198.92	0.2622	0.2506
Mercury	-16572-08-08 12:57 J	-4331280.00	-4331279.96	-4331279.92	0.2707	0.2497
Mercury	-16565-08-01 11:16 J	-4328730.13	-4328730.03	-4328729.93	0.2711	0.0910
Mercury	-16561-02-04 18:57 J	-4327447.86	-4327447.71	-4327447.55	0.2623	0.0262
Mercury	-16552-08-04 05:16 J	-4323979.39	-4323979.28	-4323979.17	0.2710	0.0297
Mercury	-16548-02-07 00:57 J	-4322696.57	-4322696.46	-4322696.36	0.2625	0.1942
Mercury	-16539-08-06 23:31 J	-4319228.61	-4319228.52	-4319228.43	0.2708	0.1507
Mercury	-16532-07-30 22:04 J	-4316678.66	-4316678.58	-4316678.50	0.2712	0.1865
Mercury	-16528-02-01 19:26 J	-4315396.78	-4315396.69	-4315396.59	0.2622	0.2071
Mercury	-16519-08-02 16:04 J	-4311927.93	-4311927.83	-4311927.72	0.2710	0.0677
Mercury	-16515-02-05 01:26 J	-4310645.59	-4310645.44	-4310645.28	0.2623	0.0179
Mercury	-16506-08-05 10:19 J	-4307177.18	-4307177.07	-4307176.97	0.2709	0.0539
Mercury	-16502-02-08 07:11 J	-4305894.26	-4305894.20	-4305894.13	0.2625	0.2348
Mercury	-16493-08-07 04:19 J	-4302426.40	-4302426.32	-4302426.23	0.2708	0.1747
Mercury	-16486-08-01 02:52 J	-4299876.46	-4299876.38	-4299876.29	0.2712	0.1636
Mercury	-16482-02-03 02:09 J	-4298594.53	-4298594.41	-4298594.29	0.2622	0.1642
Venus	-16481-05-07 22:48 J	-4298134.69	-4298134.55	-4298134.42	0.2694	0.1472
Venus	-16473-05-05 10:33 J	-4295215.11	-4295215.06	-4295215.00	0.2692	0.2523
Mercury	-16473-08-02 20:52 J	-4295125.73	-4295125.63	-4295125.52	0.2710	0.0456
Mercury	-16469-02-06 08:09 J	-4293843.31	-4293843.16	-4293843.01	0.2624	0.0595
Mercury	-16460-08-05 15:07 J	-4290374.98	-4290374.87	-4290374.77	0.2709	0.0768
Mercury	-16453-07-29 13:55 J	-4287824.95	-4287824.92	-4287824.89	0.2712	0.2580
Mercury	-16447-08-08 09:21 J	-4285624.19	-4285624.11	-4285624.04	0.2708	0.1992
Mercury	-16440-08-01 07:55 J	-4283074.27	-4283074.17	-4283074.08	0.2711	0.1403
Mercury	-16436-02-03 08:38 J	-4281792.28	-4281792.14	-4281792.00	0.2622	0.1212
Mercury	-16427-08-04 01:55 J	-4278323.53	-4278323.42	-4278323.31	0.2710	0.0217
Mercury	-16423-02-06 14:38 J	-4277041.03	-4277040.89	-4277040.75	0.2624	0.1014
Mercury	-16414-08-06 19:55 J	-4273572.77	-4273572.67	-4273572.57	0.2709	0.1004

Mercury	-16407-07-30 18:43 J	-4271022.77	-4271022.72	-4271022.67	0.2712	0.2351
Mercury	-16401-08-08 14:09 J	-4268821.97	-4268821.91	-4268821.85	0.2708	0.2231
Mercury	-16394-08-02 12:43 J	-4266272.07	-4266271.97	-4266271.87	0.2711	0.1167
Mercury	-16390-02-04 15:07 J	-4264990.02	-4264989.87	-4264989.72	0.2623	0.0793
Mercury	-16381-08-04 06:43 J	-4261521.33	-4261521.22	-4261521.11	0.2710	0.0041
Mercury	-16377-02-07 21:07 J	-4260238.75	-4260238.62	-4260238.49	0.2624	0.1436
Mercury	-16368-08-07 00:43 J	-4256770.56	-4256770.47	-4256770.37	0.2709	0.1251
Mercury	-16361-07-30 23:31 J	-4254220.58	-4254220.52	-4254220.45	0.2712	0.2121
Mercury	-16355-08-09 18:57 J	-4252019.75	-4252019.71	-4252019.66	0.2708	0.2476
Mercury	-16348-08-02 17:31 J	-4249469.87	-4249469.77	-4249469.67	0.2711	0.0934
Mercury	-16344-02-04 21:36 J	-4248187.75	-4248187.60	-4248187.44	0.2623	0.0371
Venus	-16344-11-02 07:11 J	-4247917.36	-4247917.20	-4247917.05	0.2640	0.0144
Mercury	-16335-08-05 11:31 J	-4244719.13	-4244719.02	-4244718.91	0.2710	0.0272
Mercury	-16331-02-08 03:36 J	-4243436.46	-4243436.35	-4243436.24	0.2624	0.1849
Mercury	-16322-08-08 05:45 J	-4239968.35	-4239968.26	-4239968.17	0.2709	0.1487
Mercury	-16315-08-01 04:19 J	-4237418.39	-4237418.32	-4237418.24	0.2712	0.1893
Mercury	-16311-02-02 22:04 J	-4236136.67	-4236136.58	-4236136.50	0.2622	0.2204
Mercury	-16302-08-03 22:19 J	-4232667.67	-4232667.57	-4232667.46	0.2711	0.0702
Mercury	-16298-02-06 04:19 J	-4231385.48	-4231385.32	-4231385.16	0.2623	0.0066
Mercury	-16289-08-05 16:19 J	-4227916.92	-4227916.82	-4227916.71	0.2710	0.0516
Mercury	-16285-02-09 10:04 J	-4226634.15	-4226634.08	-4226634.00	0.2624	0.2272
Mercury	-16276-08-08 10:33 J	-4223166.14	-4223166.06	-4223165.97	0.2709	0.1732
Mercury	-16269-08-01 09:07 J	-4220616.20	-4220616.12	-4220616.03	0.2712	0.1663
Mercury	-16265-02-04 04:33 J	-4219334.42	-4219334.31	-4219334.19	0.2622	0.1769
Mercury	-16256-08-04 03:07 J	-4215865.47	-4215865.37	-4215865.26	0.2711	0.0472
Mercury	-16252-02-06 10:48 J	-4214583.20	-4214583.05	-4214582.90	0.2623	0.0487
Mercury	-16243-08-06 21:21 J	-4211114.72	-4211114.61	-4211114.51	0.2710	0.0748
Venus	-16238-05-08 20:52 J	-4209378.77	-4209378.63	-4209378.49	0.2693	0.1308
Mercury	-16236-07-30 20:09 J	-4208564.69	-4208564.66	-4208564.63	0.2713	0.2611
Venus	-16230-05-06 08:52 J	-4206459.14	-4206459.13	-4206459.12	0.2691	0.2676

Mercury	-16230-08-09 15:36 J	-4206363.93	-4206363.85	-4206363.78	0.2709	0.1974
Mercury	-16223-08-02 14:09 J	-4203814.01	-4203813.91	-4203813.82	0.2712	0.1432
Mercury	-16219-02-04 11:16 J	-4202532.17	-4202532.03	-4202531.90	0.2622	0.1339
Mercury	-16210-08-05 08:09 J	-4199063.27	-4199063.16	-4199063.06	0.2711	0.0254
Mercury	-16206-02-07 17:16 J	-4197780.92	-4197780.78	-4197780.63	0.2623	0.0914
Mercury	-16197-08-07 02:09 J	-4194312.51	-4194312.41	-4194312.31	0.2710	0.0985
Mercury	-16190-08-01 00:57 J	-4191762.51	-4191762.46	-4191762.41	0.2713	0.2380
Mercury	-16184-08-09 20:24 J	-4189561.71	-4189561.65	-4189561.59	0.2708	0.2215
Mercury	-16177-08-02 18:57 J	-4187011.81	-4187011.71	-4187011.61	0.2712	0.1196
Mercury	-16173-02-05 17:45 J	-4185729.90	-4185729.76	-4185729.61	0.2622	0.0903
Mercury	-16164-08-05 12:57 J	-4182261.07	-4182260.96	-4182260.85	0.2711	0.0041
Mercury	-16160-02-07 23:45 J	-4180978.64	-4180978.51	-4180978.37	0.2623	0.1339
Mercury	-16151-08-08 06:57 J	-4177510.30	-4177510.21	-4177510.11	0.2710	0.1228
Mercury	-16144-08-01 05:45 J	-4174960.32	-4174960.26	-4174960.19	0.2713	0.2150
Mercury	-16138-08-11 01:11 J	-4172759.49	-4172759.45	-4172759.41	0.2708	0.2456
Mercury	-16131-08-03 23:45 J	-4170209.61	-4170209.51	-4170209.41	0.2712	0.0960
Mercury	-16127-02-06 00:28 J	-4168927.64	-4168927.48	-4168927.33	0.2622	0.0468
Mercury	-16118-08-06 17:45 J	-4165458.87	-4165458.76	-4165458.65	0.2711	0.0248
Mercury	-16114-02-09 06:28 J	-4164176.35	-4164176.23	-4164176.12	0.2623	0.1765
Mercury	-16105-08-08 12:00 J	-4160708.10	-4160708.00	-4160707.91	0.2709	0.1469
Venus	-16101-11-02 11:16 J	-4159161.19	-4159161.03	-4159160.88	0.2641	0.0445
Mercury	-16098-08-02 10:33 J	-4158158.13	-4158158.06	-4158157.98	0.2713	0.1920
Mercury	-16094-02-04 00:43 J	-4156876.54	-4156876.47	-4156876.40	0.2621	0.2323
Venus	-16093-10-31 05:16 J	-4156241.30	-4156241.28	-4156241.27	0.2643	0.2623
Mercury	-16092-08-11 06:00 J	-4155957.25	-4155957.25	-4155957.24	0.2708	0.2702
Mercury	-16085-08-04 04:33 J	-4153407.41	-4153407.31	-4153407.20	0.2712	0.0725
Mercury	-16081-02-07 06:57 J	-4152125.37	-4152125.21	-4152125.05	0.2622	0.0049
Mercury	-16072-08-06 22:33 J	-4148656.66	-4148656.56	-4148656.45	0.2711	0.0496
Mercury	-16068-02-09 12:57 J	-4147374.05	-4147373.96	-4147373.88	0.2624	0.2184
Mercury	-16059-08-09 16:48 J	-4143905.89	-4143905.80	-4143905.72	0.2709	0.1708

Mercury	-16052-08-02 15:21 J	-4141355.94	-4141355.86	-4141355.77	0.2712	0.1692
Mercury	-16048-02-04 07:11 J	-4140074.31	-4140074.20	-4140074.09	0.2621	0.1890
Mercury	-16039-08-05 09:21 J	-4136605.21	-4136605.11	-4136605.00	0.2711	0.0498
Mercury	-16035-02-07 13:26 J	-4135323.09	-4135322.94	-4135322.78	0.2623	0.0388
Mercury	-16026-08-08 03:35 J	-4131854.46	-4131854.35	-4131854.25	0.2710	0.0729
Mercury	-16022-02-10 19:26 J	-4130571.71	-4130571.69	-4130571.68	0.2624	0.2606
Mercury	-16019-08-01 02:24 J	-4129304.42	-4129304.40	-4129304.38	0.2713	0.2640
Mercury	-16013-08-09 21:35 J	-4127103.67	-4127103.60	-4127103.52	0.2709	0.1955
Mercury	-16006-08-03 20:24 J	-4124553.75	-4124553.65	-4124553.56	0.2712	0.1454
Mercury	-16002-02-05 13:55 J	-4123272.06	-4123271.92	-4123271.79	0.2621	0.1455

16TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 16th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	-15995-05-08 18:57 J	-4120622.86	-4120622.71	-4120622.57	0.2691	0.1154		
Mercury	-15993-08-05 14:24 J	-4119803.01	-4119802.90	-4119802.79	0.2711	0.0261		
Mercury	-15989-02-08 19:55 J	-4118520.82	-4118520.67	-4118520.52	0.2623	0.0817		
Mercury	-15980-08-08 08:24 J	-4115052.25	-4115052.15	-4115052.05	0.2710	0.0966		
Mercury	-15973-08-01 07:11 J	-4112502.25	-4112502.20	-4112502.15	0.2713	0.2409		
Mercury	-15967-08-11 02:24 J	-4110301.46	-4110301.40	-4110301.33	0.2709	0.2199		
Mercury	-15960-08-04 01:11 J	-4107751.55	-4107751.45	-4107751.35	0.2712	0.1220		
Mercury	-15956-02-05 20:24 J	-4106469.80	-4106469.65	-4106469.51	0.2622	0.1017		
Mercury	-15947-08-06 19:11 J	-4103000.81	-4103000.70	-4103000.59	0.2711	0.0016		

Mercury	-15943-02-09 02:38 J	-4101718.53	-4101718.39	-4101718.26	0.2623	0.1244
Mercury	-15934-08-09 13:11 J	-4098250.05	-4098249.95	-4098249.85	0.2710	0.1207
Mercury	-15927-08-02 12:00 J	-4095700.06	-4095700.00	-4095699.93	0.2713	0.2181
Mercury	-15921-08-11 07:26 J	-4093499.24	-4093499.19	-4093499.15	0.2709	0.2441
Mercury	-15914-08-05 06:00 J	-4090949.35	-4090949.25	-4090949.15	0.2712	0.0984
Mercury	-15910-02-07 02:52 J	-4089667.53	-4089667.38	-4089667.22	0.2622	0.0587
Mercury	-15901-08-07 00:00 J	-4086198.61	-4086198.50	-4086198.39	0.2711	0.0225
Mercury	-15897-02-10 09:07 J	-4084916.24	-4084916.12	-4084916.00	0.2623	0.1665
Mercury	-15888-08-09 18:00 J	-4081447.84	-4081447.75	-4081447.65	0.2710	0.1451
Mercury	-15881-08-02 16:48 J	-4078897.87	-4078897.80	-4078897.72	0.2713	0.1950
Mercury	-15877-02-05 03:07 J	-4077616.42	-4077616.37	-4077616.32	0.2621	0.2452
Mercury	-15875-08-12 12:14 J	-4076697.00	-4076696.99	-4076696.98	0.2709	0.2685
Mercury	-15868-08-05 10:48 J	-4074147.15	-4074147.05	-4074146.94	0.2712	0.0754
Mercury	-15864-02-07 09:35 J	-4072865.26	-4072865.10	-4072864.95	0.2622	0.0165
Venus	-15858-11-03 15:21 J	-4070405.01	-4070404.86	-4070404.71	0.2643	0.0759
Mercury	-15855-08-08 04:48 J	-4069396.41	-4069396.30	-4069396.19	0.2711	0.0464
Mercury	-15851-02-10 15:35 J	-4068113.94	-4068113.85	-4068113.76	0.2623	0.2092
Venus	-15850-11-01 09:35 J	-4067485.18	-4067485.10	-4067485.03	0.2645	0.2299
Mercury	-15842-08-10 23:02 J	-4064645.63	-4064645.54	-4064645.46	0.2710	0.1692
Mercury	-15835-08-03 21:50 J	-4062095.68	-4062095.59	-4062095.51	0.2713	0.1712
Mercury	-15831-02-05 09:50 J	-4060814.19	-4060814.09	-4060813.99	0.2621	0.2009
Mercury	-15822-08-06 15:35 J	-4057344.95	-4057344.85	-4057344.74	0.2712	0.0524
Mercury	-15818-02-08 16:04 J	-4056062.99	-4056062.83	-4056062.67	0.2622	0.0281
Mercury	-15809-08-08 09:35 J	-4052594.20	-4052594.10	-4052593.99	0.2711	0.0710
Mercury	-15805-02-11 22:04 J	-4051311.62	-4051311.58	-4051311.54	0.2623	0.2517
Mercury	-15802-08-02 08:38 J	-4050044.15	-4050044.14	-4050044.12	0.2714	0.2668
Mercury	-15796-08-11 03:50 J	-4047843.42	-4047843.34	-4047843.26	0.2710	0.1931
Mercury	-15789-08-04 02:38 J	-4045293.48	-4045293.39	-4045293.30	0.2713	0.1479
Mercury	-15785-02-06 16:19 J	-4044011.95	-4044011.82	-4044011.69	0.2621	0.1573
Mercury	-15776-08-06 20:38 J	-4040542.75	-4040542.64	-4040542.53	0.2712	0.0281

Mercury	-15772-02-08 22:48 J	-4039260.71	-4039260.55	-4039260.40	0.2622	0.0721
Mercury	-15763-08-09 14:38 J	-4035792.00	-4035791.89	-4035791.79	0.2711	0.0948
Mercury	-15756-08-02 13:26 J	-4033241.98	-4033241.94	-4033241.89	0.2714	0.2441
Venus	-15752-05-08 16:48 J	-4031866.95	-4031866.80	-4031866.65	0.2690	0.0971
Mercury	-15750-08-12 08:38 J	-4031041.20	-4031041.14	-4031041.07	0.2710	0.2179
Mercury	-15743-08-05 07:26 J	-4028491.29	-4028491.19	-4028491.09	0.2713	0.1243
Mercury	-15739-02-06 23:02 J	-4027209.69	-4027209.54	-4027209.40	0.2621	0.1134
Mercury	-15730-08-08 01:26 J	-4023740.55	-4023740.44	-4023740.33	0.2712	0.0054
Mercury	-15726-02-10 05:16 J	-4022458.42	-4022458.28	-4022458.14	0.2622	0.1145
Mercury	-15717-08-09 19:26 J	-4018989.79	-4018989.69	-4018989.59	0.2711	0.1187
Mercury	-15710-08-03 18:28 J	-4016439.80	-4016439.73	-4016439.67	0.2713	0.2206
Mercury	-15704-08-12 13:40 J	-4014238.98	-4014238.93	-4014238.89	0.2710	0.2426
Mercury	-15697-08-05 12:14 J	-4011689.09	-4011688.99	-4011688.89	0.2712	0.1011
Mercury	-15693-02-08 05:31 J	-4010407.42	-4010407.27	-4010407.12	0.2621	0.0702
Mercury	-15684-08-08 06:14 J	-4006938.35	-4006938.24	-4006938.13	0.2712	0.0203
Mercury	-15680-02-10 11:45 J	-4005656.13	-4005656.01	-4005655.88	0.2622	0.1578
Mercury	-15671-08-11 00:14 J	-4002187.58	-4002187.49	-4002187.39	0.2711	0.1431
Mercury	-15664-08-03 23:16 J	-3999637.61	-3999637.53	-3999637.46	0.2713	0.1973
Mercury	-15660-02-05 05:31 J	-3998356.29	-3998356.27	-3998356.25	0.2620	0.2581
Mercury	-15658-08-13 18:28 J	-3997436.74	-3997436.73	-3997436.72	0.2709	0.2670
Mercury	-15651-08-06 17:02 J	-3994886.89	-3994886.79	-3994886.68	0.2712	0.0774
Mercury	-15647-02-08 12:00 J	-3993605.15	-3993605.00	-3993604.84	0.2621	0.0272
Mercury	-15638-08-09 11:02 J	-3990136.15	-3990136.04	-3990135.93	0.2711	0.0444
Mercury	-15634-02-11 18:14 J	-3988853.84	-3988853.74	-3988853.64	0.2623	0.2000
Mercury	-15625-08-11 05:16 J	-3985385.37	-3985385.28	-3985385.20	0.2710	0.1674
Mercury	-15618-08-05 04:04 J	-3982835.41	-3982835.33	-3982835.25	0.2713	0.1741
Venus	-15615-11-03 19:40 J	-3981648.83	-3981648.68	-3981648.54	0.2644	0.1060
Mercury	-15614-02-06 12:14 J	-3981554.08	-3981553.99	-3981553.90	0.2620	0.2146
Venus	-15607-11-01 13:26 J	-3978729.04	-3978728.94	-3978728.83	0.2646	0.2008
Mercury	-15605-08-06 21:50 J	-3978084.69	-3978084.59	-3978084.48	0.2712	0.0545

Mercury	-15601-02-09 18:43 J	-3976802.88	-3976802.72	-3976802.56	0.2622	0.0177
Mercury	-15592-08-09 15:50 J	-3973333.94	-3973333.84	-3973333.73	0.2711	0.0692
Mercury	-15588-02-12 00:43 J	-3972051.52	-3972051.47	-3972051.41	0.2623	0.2429
Mercury	-15585-08-02 15:07 J	-3970783.88	-3970783.87	-3970783.87	0.2714	0.2701
Mercury	-15579-08-12 10:04 J	-3968583.16	-3968583.08	-3968583.00	0.2710	0.1916
Mercury	-15572-08-05 08:52 J	-3966033.22	-3966033.13	-3966033.04	0.2713	0.1507
Mercury	-15568-02-06 18:57 J	-3964751.83	-3964751.71	-3964751.59	0.2621	0.1692
Mercury	-15559-08-08 02:52 J	-3961282.49	-3961282.38	-3961282.28	0.2712	0.0320
Mercury	-15555-02-10 01:11 J	-3960000.60	-3960000.45	-3960000.30	0.2622	0.0608
Mercury	-15546-08-10 20:52 J	-3956531.74	-3956531.63	-3956531.53	0.2711	0.0926
Mercury	-15539-08-03 19:55 J	-3953981.72	-3953981.67	-3953981.63	0.2714	0.2464
Mercury	-15533-08-12 14:52 J	-3951780.94	-3951780.88	-3951780.81	0.2710	0.2162
Mercury	-15526-08-06 13:40 J	-3949231.03	-3949230.93	-3949230.83	0.2713	0.1269
Mercury	-15522-02-08 01:26 J	-3947949.58	-3947949.44	-3947949.30	0.2621	0.1257
Mercury	-15513-08-08 07:40 J	-3944480.29	-3944480.18	-3944480.07	0.2712	0.0082
Mercury	-15509-02-11 07:55 J	-3943198.32	-3943198.17	-3943198.03	0.2622	0.1051
Venus	-15509-05-08 15:07 J	-3943111.02	-3943110.87	-3943110.71	0.2688	0.0841
Mercury	-15500-08-11 01:40 J	-3939729.53	-3939729.43	-3939729.33	0.2711	0.1166
Mercury	-15493-08-04 00:43 J	-3937179.53	-3937179.47	-3937179.41	0.2714	0.2232
Mercury	-15487-08-13 19:40 J	-3934978.72	-3934978.68	-3934978.63	0.2710	0.2407
Mercury	-15480-08-06 18:28 J	-3932428.83	-3932428.73	-3932428.63	0.2713	0.1031
Mercury	-15476-02-08 08:09 J	-3931147.31	-3931147.16	-3931147.01	0.2621	0.0812
Mercury	-15467-08-09 12:28 J	-3927678.09	-3927677.98	-3927677.87	0.2712	0.0184
Mercury	-15463-02-11 14:24 J	-3926396.03	-3926395.90	-3926395.77	0.2622	0.1479
Mercury	-15454-08-12 06:28 J	-3922927.32	-3922927.23	-3922927.13	0.2711	0.1410
Mercury	-15447-08-05 05:31 J	-3920377.34	-3920377.27	-3920377.20	0.2714	0.1999
Mercury	-15441-08-14 00:43 J	-3918176.49	-3918176.47	-3918176.45	0.2710	0.2651
Mercury	-15434-08-07 23:16 J	-3915626.63	-3915626.53	-3915626.42	0.2713	0.0801
Mercury	-15430-02-09 14:38 J	-3914345.04	-3914344.89	-3914344.73	0.2621	0.0370
Mercury	-15421-08-09 17:16 J	-3910875.89	-3910875.78	-3910875.67	0.2712	0.0431

Mercury	-15417-02-12 20:52 J	-3909593.73	-3909593.63	-3909593.52	0.2622	0.1918
Mercury	-15408-08-12 11:16 J	-3906125.11	-3906125.03	-3906124.94	0.2711	0.1661
Mercury	-15401-08-05 10:19 J	-3903575.15	-3903575.07	-3903574.99	0.2714	0.1768
Mercury	-15397-02-07 14:38 J	-3902293.97	-3902293.89	-3902293.81	0.2620	0.2263
Mercury	-15388-08-08 04:04 J	-3898824.43	-3898824.33	-3898824.22	0.2713	0.0571
Mercury	-15384-02-09 21:07 J	-3897542.77	-3897542.62	-3897542.46	0.2621	0.0099
Mercury	-15375-08-10 22:04 J	-3894073.68	-3894073.58	-3894073.47	0.2712	0.0672
Venus	-15372-11-03 23:31 J	-3892892.65	-3892892.52	-3892892.38	0.2645	0.1363
Mercury	-15371-02-13 03:21 J	-3892791.42	-3892791.36	-3892791.29	0.2622	0.2344
Venus	-15364-11-01 17:31 J	-3889972.89	-3889972.77	-3889972.65	0.2647	0.1726
Mercury	-15362-08-13 16:19 J	-3889322.90	-3889322.82	-3889322.75	0.2711	0.1900
Mercury	-15355-08-06 15:07 J	-3886772.96	-3886772.87	-3886772.78	0.2714	0.1530
Mercury	-15351-02-07 21:07 J	-3885491.73	-3885491.62	-3885491.50	0.2620	0.1829
Mercury	-15342-08-09 09:07 J	-3882022.23	-3882022.12	-3882022.01	0.2713	0.0329
Mercury	-15338-02-11 03:50 J	-3880740.50	-3880740.34	-3880740.19	0.2621	0.0505
Mercury	-15329-08-11 03:07 J	-3877271.48	-3877271.37	-3877271.27	0.2712	0.0908
Mercury	-15322-08-05 02:09 J	-3874721.45	-3874721.41	-3874721.37	0.2714	0.2496
Mercury	-15316-08-13 21:07 J	-3872520.69	-3872520.62	-3872520.56	0.2711	0.2143
Mercury	-15309-08-06 19:55 J	-3869970.76	-3869970.67	-3869970.57	0.2714	0.1295
Mercury	-15305-02-09 03:50 J	-3868689.47	-3868689.34	-3868689.20	0.2620	0.1374
Mercury	-15296-08-09 13:55 J	-3865220.03	-3865219.92	-3865219.81	0.2713	0.0081
Mercury	-15292-02-11 10:19 J	-3863938.22	-3863938.07	-3863937.92	0.2621	0.0941
Mercury	-15283-08-12 07:55 J	-3860469.27	-3860469.17	-3860469.07	0.2712	0.1147
Mercury	-15276-08-05 06:57 J	-3857919.27	-3857919.21	-3857919.15	0.2714	0.2262
Mercury	-15270-08-15 01:55 J	-3855718.47	-3855718.42	-3855718.37	0.2711	0.2388
Venus	-15266-05-09 12:57 J	-3854355.12	-3854354.96	-3854354.80	0.2687	0.0653
Mercury	-15263-08-08 00:43 J	-3853168.57	-3853168.47	-3853168.37	0.2713	0.1061
Mercury	-15259-02-09 10:33 J	-3851887.21	-3851887.06	-3851886.91	0.2620	0.0928
Mercury	-15250-08-10 18:43 J	-3848417.83	-3848417.72	-3848417.61	0.2713	0.0161
Mercury	-15246-02-12 17:02 J	-3847135.92	-3847135.79	-3847135.66	0.2621	0.1388

Mercury	-15237-08-12 12:43 J	-3843667.06	-3843666.97	-3843666.88	0.2711	0.1393
Mercury	-15230-08-06 11:45 J	-3841117.08	-3841117.01	-3841116.94	0.2714	0.2027
Mercury	-15224-08-15 06:43 J	-3838916.24	-3838916.22	-3838916.19	0.2710	0.2638
Mercury	-15217-08-08 05:45 J	-3836366.37	-3836366.26	-3836366.16	0.2713	0.0829
Mercury	-15213-02-10 17:16 J	-3835084.94	-3835084.78	-3835084.63	0.2620	0.0481
Mercury	-15204-08-10 23:31 J	-3831615.63	-3831615.52	-3831615.41	0.2712	0.0403
Mercury	-15200-02-12 23:31 J	-3830333.63	-3830333.52	-3830333.41	0.2622	0.1820
Mercury	-15191-08-13 17:31 J	-3826864.85	-3826864.77	-3826864.68	0.2711	0.1633
Mercury	-15184-08-06 16:33 J	-3824314.89	-3824314.81	-3824314.73	0.2714	0.1790
Mercury	-15180-02-07 17:02 J	-3823033.85	-3823033.79	-3823033.73	0.2619	0.2394
Mercury	-15171-08-09 10:33 J	-3819564.17	-3819564.06	-3819563.96	0.2713	0.0585
Mercury	-15167-02-10 23:45 J	-3818282.67	-3818282.51	-3818282.35	0.2621	0.0043
Mercury	-15158-08-12 04:19 J	-3814813.42	-3814813.32	-3814813.21	0.2712	0.0646
Mercury	-15154-02-14 06:14 J	-3813531.32	-3813531.24	-3813531.17	0.2622	0.2263
Mercury	-15145-08-13 22:19 J	-3810062.64	-3810062.57	-3810062.49	0.2711	0.1882
Mercury	-15138-08-07 21:21 J	-3807512.70	-3807512.61	-3807512.52	0.2714	0.1556
Mercury	-15134-02-08 23:45 J	-3806231.62	-3806231.51	-3806231.40	0.2619	0.1940
Venus	-15129-11-04 03:35 J	-3804136.47	-3804136.35	-3804136.23	0.2647	0.1653
Mercury	-15125-08-09 15:21 J	-3802761.97	-3802761.86	-3802761.75	0.2713	0.0343
Mercury	-15121-02-12 06:28 J	-3801480.39	-3801480.23	-3801480.08	0.2621	0.0410
Venus	-15121-11-01 21:35 J	-3801216.73	-3801216.60	-3801216.47	0.2649	0.1420
Mercury	-15112-08-12 09:21 J	-3798011.22	-3798011.11	-3798011.01	0.2712	0.0892
Mercury	-15105-08-05 08:24 J	-3795461.19	-3795461.15	-3795461.11	0.2715	0.2522
Mercury	-15099-08-15 03:21 J	-3793260.43	-3793260.36	-3793260.30	0.2711	0.2124
Mercury	-15092-08-08 02:09 J	-3790710.50	-3790710.41	-3790710.31	0.2714	0.1322
Mercury	-15088-02-09 06:28 J	-3789429.36	-3789429.23	-3789429.10	0.2620	0.1497
Mercury	-15079-08-10 20:09 J	-3785959.77	-3785959.66	-3785959.55	0.2713	0.0103
Mercury	-15075-02-12 12:57 J	-3784678.11	-3784677.96	-3784677.81	0.2621	0.0850
Mercury	-15066-08-13 14:09 J	-3781209.01	-3781208.91	-3781208.81	0.2712	0.1132
Mercury	-15059-08-06 13:11 J	-3778659.00	-3778658.95	-3778658.89	0.2715	0.2287

Mercury	-15053-08-15 08:09 J	-3776458.21	-3776458.16	-3776458.11	0.2711	0.2375
Mercury	-15046-08-09 06:57 J	-3773908.30	-3773908.21	-3773908.11	0.2714	0.1088
Mercury	-15042-02-10 12:57 J	-3772627.10	-3772626.96	-3772626.81	0.2620	0.1044
Mercury	-15033-08-11 00:57 J	-3769157.57	-3769157.46	-3769157.35	0.2713	0.0139
Mercury	-15029-02-13 19:26 J	-3767875.82	-3767875.69	-3767875.55	0.2621	0.1287
Venus	-15023-05-09 11:31 J	-3765599.18	-3765599.02	-3765598.86	0.2685	0.0531
Mercury	-15020-08-13 18:57 J	-3764406.80	-3764406.71	-3764406.62	0.2712	0.1372
Mercury	-15013-08-06 18:00 J	-3761856.82	-3761856.75	-3761856.68	0.2715	0.2054
Mercury	-15007-08-16 12:57 J	-3759655.98	-3759655.96	-3759655.93	0.2711	0.2623

15TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 15th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-15000-08-09 12:00 J	-3757106.11	-3757106.00	-3757105.90	0.2714	0.0848		
Mercury	-14996-02-10 19:40 J	-3755824.84	-3755824.68	-3755824.53	0.2620	0.0607		
Mercury	-14987-08-12 05:45 J	-3752355.37	-3752355.26	-3752355.15	0.2713	0.0381		
Mercury	-14983-02-14 02:09 J	-3751073.53	-3751073.41	-3751073.29	0.2621	0.1726		
Mercury	-14974-08-14 23:45 J	-3747604.59	-3747604.51	-3747604.42	0.2712	0.1618		
Mercury	-14967-08-07 22:48 J	-3745054.63	-3745054.55	-3745054.47	0.2715	0.1819		
Mercury	-14963-02-08 19:26 J	-3743773.73	-3743773.69	-3743773.65	0.2619	0.2517		
Mercury	-14954-08-10 16:48 J	-3740303.91	-3740303.80	-3740303.70	0.2714	0.0611		
Mercury	-14950-02-12 02:09 J	-3739022.56	-3739022.41	-3739022.25	0.2620	0.0166		
Mercury	-14941-08-12 10:33 J	-3735553.16	-3735553.06	-3735552.95	0.2713	0.0628		

Mercury	-14937-02-15 08:38 J	-3734271.23	-3734271.14	-3734271.05	0.2621	0.2159
Mercury	-14928-08-15 04:33 J	-3730802.38	-3730802.31	-3730802.23	0.2712	0.1865
Mercury	-14921-08-08 03:35 J	-3728252.43	-3728252.35	-3728252.26	0.2714	0.1584
Mercury	-14917-02-10 02:09 J	-3726971.51	-3726971.41	-3726971.31	0.2619	0.2066
Mercury	-14908-08-10 21:35 J	-3723501.71	-3723501.60	-3723501.49	0.2714	0.0370
Mercury	-14904-02-12 08:52 J	-3722220.29	-3722220.13	-3722219.97	0.2620	0.0302
Mercury	-14895-08-13 15:35 J	-3718750.96	-3718750.85	-3718750.75	0.2713	0.0870
Mercury	-14891-02-15 15:21 J	-3717468.88	-3717468.86	-3717468.85	0.2621	0.2607
Mercury	-14888-08-06 14:38 J	-3716200.92	-3716200.89	-3716200.85	0.2715	0.2550
Venus	-14886-11-05 07:40 J	-3715380.29	-3715380.18	-3715380.08	0.2648	0.1940
Mercury	-14882-08-16 09:35 J	-3714000.17	-3714000.10	-3714000.04	0.2712	0.2111
Venus	-14878-11-03 01:26 J	-3712460.58	-3712460.44	-3712460.30	0.2650	0.1167
Mercury	-14875-08-09 08:24 J	-3711450.24	-3711450.15	-3711450.05	0.2714	0.1347
Mercury	-14871-02-10 08:52 J	-3710169.26	-3710169.13	-3710169.01	0.2619	0.1612
Mercury	-14862-08-12 02:24 J	-3706699.51	-3706699.40	-3706699.29	0.2714	0.0125
Mercury	-14858-02-13 15:35 J	-3705418.01	-3705417.85	-3705417.70	0.2620	0.0747
Mercury	-14849-08-13 20:24 J	-3701948.75	-3701948.65	-3701948.55	0.2713	0.1110
Mercury	-14842-08-07 19:26 J	-3699398.74	-3699398.69	-3699398.63	0.2715	0.2315
Mercury	-14836-08-16 14:24 J	-3697197.95	-3697197.90	-3697197.85	0.2712	0.2354
Mercury	-14829-08-09 13:26 J	-3694648.04	-3694647.94	-3694647.84	0.2714	0.1108
Mercury	-14825-02-11 15:21 J	-3693367.00	-3693366.86	-3693366.71	0.2619	0.1166
Mercury	-14816-08-12 07:11 J	-3689897.31	-3689897.20	-3689897.09	0.2713	0.0123
Mercury	-14812-02-13 22:04 J	-3688615.72	-3688615.58	-3688615.44	0.2620	0.1187
Mercury	-14803-08-15 01:11 J	-3685146.54	-3685146.45	-3685146.36	0.2713	0.1355
Mercury	-14796-08-08 00:28 J	-3682596.55	-3682596.48	-3682596.42	0.2715	0.2080
Mercury	-14790-08-17 19:11 J	-3680395.73	-3680395.70	-3680395.67	0.2711	0.2605
Mercury	-14783-08-10 18:14 J	-3677845.85	-3677845.74	-3677845.64	0.2714	0.0868
Venus	-14780-05-09 09:21 J	-3676843.27	-3676843.11	-3676842.95	0.2683	0.0373
Mercury	-14779-02-11 22:04 J	-3676564.73	-3676564.58	-3676564.43	0.2619	0.0711
Mercury	-14770-08-13 12:00 J	-3673095.10	-3673095.00	-3673094.89	0.2713	0.0372

Mercury	-14766-02-15 04:33 J	-3671813.43	-3671813.31	-3671813.18	0.2620	0.1634
Mercury	-14757-08-15 06:00 J	-3668344.33	-3668344.25	-3668344.16	0.2712	0.1603
Mercury	-14750-08-09 05:02 J	-3665794.36	-3665794.29	-3665794.21	0.2715	0.1845
Mercury	-14737-08-10 23:02 J	-3661043.65	-3661043.54	-3661043.44	0.2714	0.0627
Mercury	-14733-02-13 04:48 J	-3659762.46	-3659762.30	-3659762.14	0.2620	0.0262
Mercury	-14724-08-13 17:02 J	-3656292.90	-3656292.79	-3656292.69	0.2713	0.0613
Mercury	-14720-02-15 11:16 J	-3655011.12	-3655011.03	-3655010.93	0.2621	0.2079
Mercury	-14711-08-16 10:48 J	-3651542.12	-3651542.05	-3651541.97	0.2712	0.1850
Mercury	-14704-08-09 09:50 J	-3648992.17	-3648992.09	-3648992.00	0.2715	0.1610
Mercury	-14700-02-10 04:33 J	-3647711.40	-3647711.31	-3647711.23	0.2619	0.2195
Mercury	-14691-08-12 03:50 J	-3644241.45	-3644241.34	-3644241.23	0.2714	0.0386
Mercury	-14687-02-13 11:16 J	-3642960.19	-3642960.03	-3642959.87	0.2620	0.0190
Mercury	-14678-08-14 21:50 J	-3639490.70	-3639490.59	-3639490.49	0.2713	0.0851
Mercury	-14674-02-16 17:45 J	-3638208.80	-3638208.76	-3638208.72	0.2621	0.2515
Mercury	-14671-08-07 21:07 J	-3636940.66	-3636940.62	-3636940.59	0.2716	0.2577
Mercury	-14665-08-16 15:50 J	-3634739.91	-3634739.84	-3634739.78	0.2712	0.2094
Mercury	-14658-08-10 14:52 J	-3632189.98	-3632189.88	-3632189.79	0.2715	0.1372
Mercury	-14654-02-11 11:16 J	-3630909.15	-3630909.03	-3630908.92	0.2619	0.1740
Mercury	-14645-08-12 08:38 J	-3627439.25	-3627439.14	-3627439.03	0.2714	0.0147
Venus	-14643-11-05 11:31 J	-3626624.10	-3626624.02	-3626623.94	0.2650	0.2223
Mercury	-14641-02-14 18:00 J	-3626157.91	-3626157.75	-3626157.60	0.2620	0.0635
Venus	-14635-11-03 05:31 J	-3623704.41	-3623704.27	-3623704.12	0.2652	0.0868
Mercury	-14632-08-15 02:38 J	-3622688.49	-3622688.39	-3622688.29	0.2713	0.1092
Mercury	-14625-08-08 01:55 J	-3620138.48	-3620138.42	-3620138.37	0.2716	0.2341
Mercury	-14619-08-17 20:38 J	-3617937.70	-3617937.64	-3617937.59	0.2712	0.2341
Mercury	-14612-08-10 19:40 J	-3615387.78	-3615387.68	-3615387.58	0.2715	0.1128
Mercury	-14608-02-11 18:00 J	-3614106.89	-3614106.75	-3614106.61	0.2619	0.1280
Mercury	-14599-08-13 13:26 J	-3610637.05	-3610636.94	-3610636.83	0.2714	0.0117
Mercury	-14595-02-15 00:43 J	-3609355.62	-3609355.47	-3609355.33	0.2620	0.1093
Mercury	-14586-08-16 07:26 J	-3605886.29	-3605886.19	-3605886.10	0.2713	0.1336

Mercury	-14579-08-09 06:43 J	-3603336.29	-3603336.22	-3603336.16	0.2715	0.2103
Mercury	-14573-08-18 01:26 J	-3601135.47	-3601135.44	-3601135.41	0.2712	0.2587
Mercury	-14566-08-12 00:28 J	-3598585.58	-3598585.48	-3598585.38	0.2715	0.0887
Mercury	-14562-02-13 00:28 J	-3597304.63	-3597304.48	-3597304.33	0.2619	0.0824
Mercury	-14553-08-13 18:14 J	-3593834.84	-3593834.74	-3593834.63	0.2714	0.0361
Mercury	-14549-02-16 07:11 J	-3592553.32	-3592553.20	-3592553.07	0.2620	0.1546
Mercury	-14540-08-16 12:14 J	-3589084.08	-3589083.99	-3589083.90	0.2713	0.1582
Venus	-14537-05-09 07:55 J	-3588087.33	-3588087.17	-3588087.01	0.2682	0.0254
Mercury	-14533-08-09 11:31 J	-3586534.10	-3586534.02	-3586533.94	0.2715	0.1867
Mercury	-14520-08-12 05:16 J	-3581783.38	-3581783.28	-3581783.17	0.2715	0.0645
Mercury	-14516-02-13 07:11 J	-3580502.36	-3580502.20	-3580502.04	0.2619	0.0368
Mercury	-14507-08-14 23:16 J	-3577032.64	-3577032.53	-3577032.43	0.2714	0.0596
Mercury	-14503-02-16 13:55 J	-3575751.02	-3575750.92	-3575750.82	0.2620	0.1988
Mercury	-14494-08-17 17:02 J	-3572281.87	-3572281.79	-3572281.71	0.2713	0.1832
Mercury	-14487-08-10 16:19 J	-3569731.91	-3569731.82	-3569731.73	0.2715	0.1628
Mercury	-14483-02-11 06:57 J	-3568451.28	-3568451.21	-3568451.14	0.2618	0.2321
Mercury	-14474-08-13 10:04 J	-3564981.19	-3564981.08	-3564980.97	0.2714	0.0409
Mercury	-14470-02-14 13:55 J	-3563700.08	-3563699.92	-3563699.76	0.2619	0.0105
Mercury	-14461-08-15 04:04 J	-3560230.44	-3560230.33	-3560230.23	0.2714	0.0835
Mercury	-14457-02-17 20:24 J	-3558948.70	-3558948.65	-3558948.59	0.2620	0.2437
Mercury	-14454-08-09 03:21 J	-3557680.39	-3557680.36	-3557680.33	0.2716	0.2602
Mercury	-14448-08-17 22:04 J	-3555479.65	-3555479.58	-3555479.52	0.2713	0.2081
Mercury	-14441-08-10 21:07 J	-3552929.71	-3552929.62	-3552929.53	0.2715	0.1388
Mercury	-14437-02-12 13:40 J	-3551649.04	-3551648.93	-3551648.82	0.2618	0.1859
Mercury	-14428-08-13 14:52 J	-3548178.99	-3548178.88	-3548178.77	0.2714	0.0175
Mercury	-14424-02-14 20:24 J	-3546897.80	-3546897.65	-3546897.49	0.2619	0.0540
Mercury	-14415-08-16 08:52 J	-3543428.23	-3543428.13	-3543428.03	0.2713	0.1075
Mercury	-14408-08-09 08:09 J	-3540878.21	-3540878.16	-3540878.11	0.2716	0.2365
Mercury	-14402-08-19 02:52 J	-3538677.44	-3538677.38	-3538677.33	0.2712	0.2326
Venus	-14400-11-05 15:35 J	-3537867.90	-3537867.85	-3537867.80	0.2651	0.2505

Mercury	-14395-08-12 01:55 J	-3536127.52	-3536127.42	-3536127.32	0.2715	0.1150
Venus	-14392-11-03 09:21 J	-3534948.27	-3534948.11	-3534947.96	0.2653	0.0617
Mercury	-14391-02-12 20:09 J	-3534846.79	-3534846.66	-3534846.52	0.2619	0.1403
Mercury	-14382-08-14 19:40 J	-3531376.79	-3531376.68	-3531376.57	0.2714	0.0114
Mercury	-14378-02-16 03:07 J	-3530095.52	-3530095.37	-3530095.22	0.2619	0.0994
Mercury	-14369-08-16 13:40 J	-3526626.03	-3526625.93	-3526625.84	0.2713	0.1321
Mercury	-14362-08-10 12:57 J	-3524076.03	-3524075.96	-3524075.89	0.2716	0.2131
Mercury	-14356-08-19 07:40 J	-3521875.21	-3521875.18	-3521875.15	0.2712	0.2574
Mercury	-14349-08-12 06:43 J	-3519325.32	-3519325.22	-3519325.12	0.2715	0.0910
Mercury	-14345-02-14 02:52 J	-3518044.52	-3518044.38	-3518044.23	0.2619	0.0939
Mercury	-14336-08-15 00:28 J	-3514574.58	-3514574.48	-3514574.37	0.2714	0.0336
Mercury	-14332-02-16 09:50 J	-3513293.23	-3513293.09	-3513292.96	0.2620	0.1443
Mercury	-14323-08-17 18:28 J	-3509823.82	-3509823.73	-3509823.64	0.2713	0.1568
Mercury	-14316-08-10 17:45 J	-3507273.83	-3507273.76	-3507273.68	0.2716	0.1888
Mercury	-14303-08-13 11:31 J	-3502523.12	-3502523.02	-3502522.91	0.2715	0.0672
Mercury	-14299-02-14 09:35 J	-3501242.26	-3501242.10	-3501241.94	0.2619	0.0479
Venus	-14294-05-10 06:14 J	-3499331.40	-3499331.24	-3499331.08	0.2680	0.0121
Mercury	-14290-08-16 05:31 J	-3497772.38	-3497772.27	-3497772.17	0.2714	0.0576
Mercury	-14286-02-17 16:19 J	-3496490.92	-3496490.82	-3496490.71	0.2620	0.1897
Mercury	-14277-08-17 23:16 J	-3493021.61	-3493021.53	-3493021.45	0.2713	0.1816
Mercury	-14270-08-11 22:33 J	-3490471.64	-3490471.56	-3490471.47	0.2716	0.1650
Mercury	-14266-02-12 09:21 J	-3489191.17	-3489191.11	-3489191.06	0.2618	0.2435
Mercury	-14257-08-13 16:19 J	-3485720.92	-3485720.82	-3485720.71	0.2715	0.0429
Mercury	-14253-02-15 16:19 J	-3484439.98	-3484439.82	-3484439.66	0.2619	0.0028
Mercury	-14244-08-16 10:19 J	-3480970.18	-3480970.07	-3480969.97	0.2714	0.0812
Mercury	-14240-02-17 23:02 J	-3479688.61	-3479688.54	-3479688.47	0.2620	0.2346
Mercury	-14237-08-09 09:35 J	-3478420.12	-3478420.10	-3478420.07	0.2716	0.2627
Mercury	-14231-08-19 04:19 J	-3476219.39	-3476219.32	-3476219.25	0.2713	0.2062
Mercury	-14224-08-12 03:21 J	-3473669.45	-3473669.36	-3473669.27	0.2715	0.1411
Mercury	-14220-02-12 15:50 J	-3472388.94	-3472388.84	-3472388.73	0.2618	0.1982

Mercury	-14211-08-14 21:07 J	-3468918.72	-3468918.62	-3468918.51	0.2715	0.0205
Mercury	-14207-02-15 23:02 J	-3467637.70	-3467637.54	-3467637.38	0.2619	0.0442
Mercury	-14198-08-17 15:07 J	-3464167.97	-3464167.87	-3464167.77	0.2714	0.1060
Mercury	-14191-08-10 14:24 J	-3461617.95	-3461617.90	-3461617.85	0.2716	0.2391
Mercury	-14185-08-19 09:07 J	-3459417.18	-3459417.12	-3459417.07	0.2713	0.2311
Mercury	-14178-08-13 08:09 J	-3456867.26	-3456867.16	-3456867.06	0.2715	0.1173
Mercury	-14174-02-13 22:48 J	-3455586.68	-3455586.55	-3455586.42	0.2618	0.1511
Mercury	-14165-08-15 01:55 J	-3452116.52	-3452116.42	-3452116.31	0.2715	0.0130
Mercury	-14161-02-17 05:31 J	-3450835.42	-3450835.27	-3450835.12	0.2619	0.0891
Mercury	-14152-08-17 19:55 J	-3447365.76	-3447365.67	-3447365.57	0.2714	0.1305
Venus	-14149-11-03 13:11 J	-3446192.11	-3446191.95	-3446191.80	0.2655	0.0346
Mercury	-14145-08-10 19:11 J	-3444815.76	-3444815.70	-3444815.63	0.2716	0.2151
Mercury	-14139-08-20 13:55 J	-3442614.95	-3442614.92	-3442614.89	0.2713	0.2562
Mercury	-14132-08-13 12:57 J	-3440065.06	-3440064.96	-3440064.86	0.2715	0.0933
Mercury	-14128-02-14 05:16 J	-3438784.42	-3438784.28	-3438784.13	0.2618	0.1058
Mercury	-14119-08-16 06:57 J	-3435314.32	-3435314.21	-3435314.11	0.2714	0.0313
Mercury	-14115-02-17 12:14 J	-3434033.13	-3434032.99	-3434032.85	0.2619	0.1347
Mercury	-14106-08-19 00:43 J	-3430563.56	-3430563.47	-3430563.38	0.2714	0.1554
Mercury	-14099-08-12 00:00 J	-3428013.57	-3428013.50	-3428013.42	0.2716	0.1915
Mercury	-14086-08-14 17:45 J	-3423262.86	-3423262.76	-3423262.65	0.2715	0.0692
Mercury	-14082-02-15 12:00 J	-3421982.15	-3421982.00	-3421981.84	0.2618	0.0594
Mercury	-14073-08-16 11:45 J	-3418512.12	-3418512.01	-3418511.90	0.2714	0.0552
Mercury	-14069-02-18 18:43 J	-3417230.83	-3417230.72	-3417230.60	0.2619	0.1798
Mercury	-14060-08-19 05:31 J	-3413761.35	-3413761.27	-3413761.18	0.2713	0.1801
Mercury	-14053-08-12 04:48 J	-3411211.38	-3411211.30	-3411211.21	0.2716	0.1676
Venus	-14051-05-10 04:48 J	-3410575.46	-3410575.30	-3410575.14	0.2678	0.0027
Mercury	-14049-02-13 11:31 J	-3409931.04	-3409931.02	-3409930.99	0.2618	0.2570
Mercury	-14040-08-14 22:33 J	-3406460.66	-3406460.56	-3406460.45	0.2715	0.0461
Mercury	-14036-02-15 18:43 J	-3405179.88	-3405179.72	-3405179.56	0.2618	0.0132
Mercury	-14027-08-17 16:33 J	-3401709.91	-3401709.81	-3401709.71	0.2714	0.0797

Mercury	-14023-02-19 01:26 J	-3400428.52	-3400428.44	-3400428.36	0.2619	0.2256
Mercury	-14020-08-10 16:04 J	-3399159.85	-3399159.83	-3399159.81	0.2717	0.2651
Mercury	-14014-08-20 10:33 J	-3396959.13	-3396959.06	-3396958.99	0.2713	0.2052
Mercury	-14007-08-13 09:35 J	-3394409.19	-3394409.10	-3394409.00	0.2716	0.1439
Mercury	-14003-02-13 18:28 J	-3393128.83	-3393128.73	-3393128.64	0.2618	0.2096

14TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 14th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-13994-08-16 03:35 J	-3389658.46	-3389658.35	-3389658.25	0.2715	0.0225		
Mercury	-13990-02-17 01:26 J	-3388377.60	-3388377.44	-3388377.29	0.2619	0.0335		
Mercury	-13981-08-17 21:21 J	-3384907.71	-3384907.61	-3384907.51	0.2714	0.1040		
Mercury	-13974-08-11 20:52 J	-3382357.68	-3382357.63	-3382357.59	0.2716	0.2414		
Mercury	-13968-08-20 15:21 J	-3380156.92	-3380156.86	-3380156.81	0.2713	0.2297		
Mercury	-13961-08-13 14:38 J	-3377606.99	-3377606.89	-3377606.80	0.2716	0.1195		
Mercury	-13957-02-15 00:57 J	-3376326.58	-3376326.46	-3376326.33	0.2618	0.1639		
Mercury	-13948-08-16 08:24 J	-3372856.26	-3372856.15	-3372856.04	0.2715	0.0070		
Mercury	-13944-02-17 07:55 J	-3371575.32	-3371575.17	-3371575.01	0.2619	0.0793		
Mercury	-13935-08-19 02:09 J	-3368105.50	-3368105.41	-3368105.31	0.2714	0.1286		
Mercury	-13928-08-12 01:40 J	-3365555.50	-3365555.43	-3365555.37	0.2716	0.2176		
Mercury	-13922-08-21 20:09 J	-3363354.70	-3363354.66	-3363354.63	0.2713	0.2545		
Mercury	-13915-08-14 19:26 J	-3360804.80	-3360804.69	-3360804.59	0.2716	0.0952		
Mercury	-13911-02-15 07:40 J	-3359524.32	-3359524.18	-3359524.04	0.2618	0.1166		

Venus	-13906-11-04 16:48 J	-3357435.95	-3357435.80	-3357435.64	0.2656	0.0120
Mercury	-13902-08-17 13:11 J	-3356054.06	-3356053.95	-3356053.84	0.2715	0.0292
Mercury	-13898-02-18 14:38 J	-3354773.03	-3354772.89	-3354772.75	0.2619	0.1248
Mercury	-13889-08-19 06:57 J	-3351303.30	-3351303.21	-3351303.12	0.2714	0.1536
Mercury	-13882-08-13 06:28 J	-3348753.31	-3348753.23	-3348753.16	0.2716	0.1938
Mercury	-13869-08-15 00:14 J	-3344002.60	-3344002.49	-3344002.39	0.2715	0.0710
Mercury	-13865-02-16 14:24 J	-3342722.05	-3342721.90	-3342721.75	0.2618	0.0706
Mercury	-13856-08-17 18:00 J	-3339251.86	-3339251.75	-3339251.64	0.2715	0.0533
Mercury	-13852-02-18 21:21 J	-3337970.73	-3337970.61	-3337970.49	0.2619	0.1715
Mercury	-13843-08-20 11:45 J	-3334501.09	-3334501.01	-3334500.92	0.2714	0.1791
Mercury	-13836-08-13 11:16 J	-3331951.12	-3331951.03	-3331950.95	0.2716	0.1697
Mercury	-13823-08-16 05:02 J	-3327200.40	-3327200.29	-3327200.19	0.2715	0.0467
Mercury	-13819-02-16 21:07 J	-3325919.78	-3325919.62	-3325919.46	0.2618	0.0236
Mercury	-13810-08-18 22:48 J	-3322449.65	-3322449.55	-3322449.45	0.2715	0.0780
Venus	-13808-05-10 03:21 J	-3321819.52	-3321819.36	-3321819.19	0.2677	0.0113
Mercury	-13806-02-20 04:04 J	-3321168.42	-3321168.33	-3321168.25	0.2619	0.2166
Mercury	-13803-08-11 22:19 J	-3319899.59	-3319899.57	-3319899.56	0.2717	0.2676
Mercury	-13797-08-20 16:48 J	-3317698.87	-3317698.80	-3317698.73	0.2714	0.2035
Mercury	-13790-08-14 16:04 J	-3315148.92	-3315148.83	-3315148.74	0.2716	0.1454
Mercury	-13786-02-14 20:38 J	-3313868.73	-3313868.64	-3313868.56	0.2617	0.2233
Mercury	-13777-08-16 09:50 J	-3310398.20	-3310398.09	-3310397.98	0.2715	0.0223
Mercury	-13773-02-18 03:50 J	-3309117.50	-3309117.34	-3309117.19	0.2618	0.0231
Mercury	-13764-08-19 03:35 J	-3305647.45	-3305647.35	-3305647.25	0.2715	0.1024
Mercury	-13757-08-12 03:07 J	-3303097.42	-3303097.37	-3303097.33	0.2717	0.2438
Mercury	-13751-08-21 21:35 J	-3300896.66	-3300896.60	-3300896.55	0.2714	0.2284
Mercury	-13744-08-14 20:52 J	-3298346.73	-3298346.63	-3298346.53	0.2716	0.1214
Mercury	-13740-02-15 03:21 J	-3297066.48	-3297066.36	-3297066.24	0.2617	0.1754
Mercury	-13731-08-17 14:38 J	-3293596.00	-3293595.89	-3293595.78	0.2715	0.0046
Mercury	-13727-02-18 10:19 J	-3292315.22	-3292315.07	-3292314.91	0.2618	0.0688
Mercury	-13718-08-20 08:24 J	-3288845.24	-3288845.15	-3288845.05	0.2714	0.1274

Mercury	-13711-08-13 07:55 J	-3286295.23	-3286295.17	-3286295.11	0.2717	0.2199
Mercury	-13705-08-22 02:24 J	-3284094.44	-3284094.40	-3284094.36	0.2714	0.2531
Mercury	-13698-08-16 01:40 J	-3281544.53	-3281544.43	-3281544.33	0.2716	0.0972
Mercury	-13694-02-16 10:04 J	-3280264.22	-3280264.08	-3280263.94	0.2618	0.1289
Mercury	-13685-08-17 19:26 J	-3276793.80	-3276793.69	-3276793.58	0.2715	0.0268
Mercury	-13681-02-19 17:02 J	-3275512.93	-3275512.79	-3275512.64	0.2618	0.1159
Mercury	-13672-08-20 13:11 J	-3272043.04	-3272042.95	-3272042.86	0.2714	0.1523
Mercury	-13665-08-13 12:43 J	-3269493.04	-3269492.97	-3269492.90	0.2717	0.1957
Venus	-13663-11-04 20:38 J	-3268679.80	-3268679.64	-3268679.49	0.2658	0.0173
Mercury	-13652-08-16 06:28 J	-3264742.34	-3264742.23	-3264742.13	0.2716	0.0729
Mercury	-13648-02-16 16:48 J	-3263461.95	-3263461.80	-3263461.65	0.2618	0.0810
Mercury	-13639-08-19 00:14 J	-3259991.60	-3259991.49	-3259991.38	0.2715	0.0514
Mercury	-13635-02-19 23:45 J	-3258710.63	-3258710.51	-3258710.38	0.2618	0.1616
Mercury	-13626-08-21 18:00 J	-3255240.83	-3255240.75	-3255240.66	0.2714	0.1771
Mercury	-13619-08-14 17:31 J	-3252690.85	-3252690.77	-3252690.69	0.2716	0.1716
Mercury	-13606-08-17 11:16 J	-3247940.14	-3247940.03	-3247939.92	0.2716	0.0482
Mercury	-13602-02-17 23:31 J	-3246659.68	-3246659.52	-3246659.36	0.2618	0.0354
Mercury	-13593-08-19 05:02 J	-3243189.39	-3243189.29	-3243189.18	0.2715	0.0762
Mercury	-13589-02-21 06:28 J	-3241908.32	-3241908.23	-3241908.13	0.2619	0.2081
Mercury	-13586-08-13 04:33 J	-3240639.31	-3240639.31	-3240639.30	0.2717	0.2702
Mercury	-13580-08-21 23:02 J	-3238438.61	-3238438.54	-3238438.47	0.2714	0.2020
Mercury	-13573-08-14 22:19 J	-3235888.66	-3235888.57	-3235888.48	0.2716	0.1474
Mercury	-13569-02-15 23:02 J	-3234608.61	-3234608.54	-3234608.48	0.2617	0.2345
Venus	-13565-05-10 01:55 J	-3233063.58	-3233063.42	-3233063.26	0.2675	0.0210
Mercury	-13560-08-17 16:04 J	-3231137.94	-3231137.83	-3231137.72	0.2716	0.0238
Mercury	-13556-02-18 06:14 J	-3229857.40	-3229857.24	-3229857.08	0.2618	0.0129
Mercury	-13547-08-20 09:50 J	-3226387.19	-3226387.09	-3226386.99	0.2715	0.1015
Mercury	-13543-02-21 12:57 J	-3225105.99	-3225105.96	-3225105.92	0.2619	0.2535
Mercury	-13540-08-13 09:21 J	-3223837.15	-3223837.11	-3223837.06	0.2717	0.2462
Mercury	-13534-08-23 03:50 J	-3221636.40	-3221636.34	-3221636.28	0.2714	0.2269

Mercury	-13527-08-16 03:07 J	-3219086.47	-3219086.37	-3219086.27	0.2716	0.1234
Mercury	-13523-02-16 05:31 J	-3217806.38	-3217806.27	-3217806.16	0.2617	0.1879
Mercury	-13514-08-18 20:52 J	-3214335.74	-3214335.63	-3214335.52	0.2716	0.0023
Mercury	-13510-02-19 12:57 J	-3213055.12	-3213054.96	-3213054.81	0.2618	0.0592
Mercury	-13501-08-20 14:38 J	-3209584.98	-3209584.89	-3209584.79	0.2715	0.1263
Mercury	-13494-08-14 14:09 J	-3207034.97	-3207034.91	-3207034.85	0.2717	0.2223
Mercury	-13488-08-23 08:38 J	-3204834.18	-3204834.14	-3204834.10	0.2714	0.2523
Mercury	-13481-08-16 07:55 J	-3202284.27	-3202284.17	-3202284.07	0.2716	0.0991
Mercury	-13477-02-17 12:28 J	-3201004.12	-3201003.98	-3201003.85	0.2617	0.1405
Mercury	-13468-08-19 01:40 J	-3197533.54	-3197533.43	-3197533.32	0.2716	0.0253
Mercury	-13464-02-19 19:26 J	-3196252.83	-3196252.69	-3196252.54	0.2618	0.1053
Mercury	-13455-08-21 19:40 J	-3192782.77	-3192782.68	-3192782.59	0.2715	0.1510
Mercury	-13448-08-14 18:57 J	-3190232.78	-3190232.71	-3190232.63	0.2717	0.1983
Mercury	-13435-08-17 12:43 J	-3185482.07	-3185481.97	-3185481.87	0.2716	0.0748
Mercury	-13431-02-17 18:57 J	-3184201.86	-3184201.71	-3184201.56	0.2617	0.0937
Mercury	-13422-08-20 06:28 J	-3180731.33	-3180731.23	-3180731.12	0.2715	0.0502
Venus	-13420-11-05 00:14 J	-3179923.65	-3179923.49	-3179923.34	0.2659	0.0391
Mercury	-13418-02-21 02:09 J	-3179450.54	-3179450.41	-3179450.28	0.2618	0.1512
Mercury	-13409-08-22 00:28 J	-3175980.57	-3175980.48	-3175980.40	0.2715	0.1756
Mercury	-13402-08-15 23:45 J	-3173430.59	-3173430.51	-3173430.42	0.2717	0.1741
Mercury	-13389-08-17 17:31 J	-3168679.87	-3168679.77	-3168679.66	0.2716	0.0505
Mercury	-13385-02-19 01:55 J	-3167399.58	-3167399.42	-3167399.27	0.2617	0.0461
Mercury	-13376-08-20 11:16 J	-3163929.13	-3163929.03	-3163928.92	0.2715	0.0750
Mercury	-13372-02-21 08:52 J	-3162648.24	-3162648.13	-3162648.03	0.2618	0.1979
Mercury	-13363-08-23 05:16 J	-3159178.35	-3159178.28	-3159178.21	0.2715	0.2006
Mercury	-13356-08-16 04:33 J	-3156628.40	-3156628.31	-3156628.22	0.2717	0.1498
Mercury	-13352-02-16 01:11 J	-3155348.50	-3155348.45	-3155348.40	0.2617	0.2471
Mercury	-13343-08-18 22:19 J	-3151877.67	-3151877.57	-3151877.46	0.2716	0.0268
Mercury	-13339-02-19 08:38 J	-3150597.31	-3150597.14	-3150596.98	0.2617	0.0077
Mercury	-13330-08-21 16:04 J	-3147126.93	-3147126.83	-3147126.72	0.2715	0.0999

Mercury	-13326-02-22 15:35 J	-3145845.90	-3145845.85	-3145845.80	0.2618	0.2451
Mercury	-13323-08-14 15:50 J	-3144576.88	-3144576.84	-3144576.80	0.2717	0.2485
Venus	-13322-05-11 00:43 J	-3144307.63	-3144307.47	-3144307.31	0.2673	0.0293
Mercury	-13317-08-23 10:04 J	-3142376.14	-3142376.08	-3142376.02	0.2715	0.2255
Mercury	-13310-08-17 09:21 J	-3139826.20	-3139826.11	-3139826.01	0.2717	0.1256
Mercury	-13306-02-17 07:55 J	-3138546.27	-3138546.17	-3138546.07	0.2617	0.1995
Mercury	-13297-08-19 03:07 J	-3135075.47	-3135075.37	-3135075.26	0.2716	0.0093
Mercury	-13293-02-20 15:07 J	-3133795.02	-3133794.87	-3133794.71	0.2617	0.0489
Mercury	-13284-08-21 21:07 J	-3130324.72	-3130324.62	-3130324.53	0.2715	0.1248
Mercury	-13277-08-14 20:38 J	-3127774.70	-3127774.64	-3127774.58	0.2717	0.2244
Mercury	-13271-08-24 14:52 J	-3125573.92	-3125573.88	-3125573.84	0.2715	0.2504
Mercury	-13264-08-17 14:09 J	-3123024.01	-3123023.91	-3123023.81	0.2717	0.1016
Mercury	-13260-02-17 14:38 J	-3121744.02	-3121743.89	-3121743.76	0.2617	0.1523
Mercury	-13251-08-20 07:55 J	-3118273.27	-3118273.17	-3118273.06	0.2716	0.0260
Mercury	-13247-02-20 21:50 J	-3116992.74	-3116992.59	-3116992.44	0.2618	0.0947
Mercury	-13238-08-23 01:55 J	-3113522.51	-3113522.42	-3113522.33	0.2715	0.1495
Mercury	-13231-08-16 01:26 J	-3110972.51	-3110972.44	-3110972.37	0.2717	0.2005
Mercury	-13218-08-18 19:11 J	-3106221.81	-3106221.70	-3106221.60	0.2717	0.0773
Mercury	-13214-02-18 21:21 J	-3104941.76	-3104941.61	-3104941.46	0.2617	0.1046
Mercury	-13205-08-20 12:43 J	-3101471.07	-3101470.97	-3101470.86	0.2716	0.0496
Mercury	-13201-02-22 04:33 J	-3100190.44	-3100190.31	-3100190.18	0.2618	0.1420
Mercury	-13192-08-23 06:43 J	-3096720.31	-3096720.22	-3096720.14	0.2715	0.1744
Mercury	-13185-08-16 06:14 J	-3094170.32	-3094170.24	-3094170.16	0.2717	0.1762
Venus	-13177-11-05 03:35 J	-3091167.50	-3091167.35	-3091167.20	0.2661	0.0615
Mercury	-13172-08-19 00:00 J	-3089419.61	-3089419.50	-3089419.40	0.2716	0.0533
Venus	-13169-11-02 21:07 J	-3088247.66	-3088247.62	-3088247.59	0.2663	0.2590
Mercury	-13168-02-19 04:04 J	-3088139.49	-3088139.33	-3088139.18	0.2617	0.0577
Mercury	-13159-08-21 17:45 J	-3084668.87	-3084668.76	-3084668.66	0.2716	0.0738
Mercury	-13155-02-22 11:16 J	-3083388.14	-3083388.03	-3083387.92	0.2618	0.1891
Mercury	-13146-08-24 11:31 J	-3079918.09	-3079918.02	-3079917.95	0.2715	0.1992

Mercury	-13139-08-17 11:02 J	-3077368.13	-3077368.04	-3077367.95	0.2717	0.1521
Mercury	-13135-02-17 03:21 J	-3076088.37	-3076088.36	-3076088.35	0.2616	0.2603
Mercury	-13126-08-20 04:48 J	-3072617.41	-3072617.30	-3072617.20	0.2716	0.0298
Mercury	-13122-02-20 10:48 J	-3071337.21	-3071337.05	-3071336.89	0.2617	0.0100
Mercury	-13113-08-21 22:19 J	-3067866.67	-3067866.57	-3067866.46	0.2716	0.0985
Mercury	-13109-02-23 17:45 J	-3066585.82	-3066585.76	-3066585.69	0.2618	0.2354
Mercury	-13106-08-15 22:04 J	-3065316.62	-3065316.58	-3065316.54	0.2718	0.2506
Mercury	-13100-08-24 16:19 J	-3063115.88	-3063115.82	-3063115.76	0.2715	0.2243
Mercury	-13093-08-17 15:50 J	-3060565.94	-3060565.84	-3060565.75	0.2717	0.1275
Mercury	-13089-02-18 10:04 J	-3059286.17	-3059286.08	-3059285.99	0.2616	0.2121
Mercury	-13080-08-20 09:35 J	-3055815.21	-3055815.10	-3055815.00	0.2716	0.0117
Venus	-13079-05-10 23:31 J	-3055551.68	-3055551.52	-3055551.36	0.2671	0.0395
Mercury	-13076-02-20 17:31 J	-3054534.93	-3054534.77	-3054534.61	0.2617	0.0374
Mercury	-13067-08-23 03:21 J	-3051064.46	-3051064.36	-3051064.27	0.2716	0.1230
Mercury	-13060-08-16 02:52 J	-3048514.44	-3048514.38	-3048514.32	0.2718	0.2265
Mercury	-13054-08-25 21:07 J	-3046313.66	-3046313.62	-3046313.58	0.2715	0.2493
Mercury	-13047-08-18 20:38 J	-3043763.74	-3043763.64	-3043763.54	0.2717	0.1028
Mercury	-13043-02-18 16:48 J	-3042483.92	-3042483.80	-3042483.67	0.2616	0.1639
Mercury	-13034-08-21 14:24 J	-3039013.01	-3039012.90	-3039012.80	0.2716	0.0243
Mercury	-13030-02-22 00:14 J	-3037732.64	-3037732.49	-3037732.34	0.2617	0.0852
Mercury	-13021-08-23 08:09 J	-3034262.25	-3034262.16	-3034262.07	0.2716	0.1477
Mercury	-13014-08-17 07:40 J	-3031712.25	-3031712.18	-3031712.11	0.2717	0.2022
Mercury	-13001-08-19 01:26 J	-3026961.55	-3026961.44	-3026961.34	0.2717	0.0786

13TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 13th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-12997-02-19 23:31 J	-3025681.66	-3025681.52	-3025681.37	0.2617	0.1165		
Mercury	-12988-08-21 19:11 J	-3022210.81	-3022210.70	-3022210.60	0.2716	0.0474		
Mercury	-12984-02-22 06:57 J	-3020930.35	-3020930.21	-3020930.07	0.2617	0.1329		
Mercury	-12975-08-24 12:57 J	-3017460.04	-3017459.96	-3017459.88	0.2716	0.1727		
Mercury	-12968-08-17 12:28 J	-3014910.06	-3014909.98	-3014909.90	0.2717	0.1782		
Mercury	-12955-08-20 06:14 J	-3010159.35	-3010159.24	-3010159.14	0.2717	0.0541		
Mercury	-12951-02-20 06:28 J	-3008879.39	-3008879.23	-3008879.08	0.2617	0.0683		
Mercury	-12942-08-23 00:00 J	-3005408.61	-3005408.50	-3005408.40	0.2716	0.0719		
Mercury	-12938-02-23 13:40 J	-3004128.05	-3004127.93	-3004127.82	0.2617	0.1797		
Venus	-12934-11-06 06:57 J	-3002411.35	-3002411.21	-3002411.06	0.2662	0.0839		
Mercury	-12929-08-24 17:45 J	-3000657.83	-3000657.76	-3000657.69	0.2715	0.1979		
Venus	-12926-11-04 00:28 J	-2999491.55	-2999491.48	-2999491.41	0.2664	0.2366		
Mercury	-12922-08-18 17:16 J	-2998107.87	-2998107.78	-2998107.69	0.2717	0.1536		
Mercury	-12909-08-20 11:02 J	-2993357.15	-2993357.04	-2993356.93	0.2717	0.0299		
Mercury	-12905-02-21 12:57 J	-2992077.12	-2992076.96	-2992076.79	0.2617	0.0218		
Mercury	-12896-08-23 04:48 J	-2988606.40	-2988606.30	-2988606.20	0.2716	0.0965		
Mercury	-12892-02-23 20:24 J	-2987325.73	-2987325.65	-2987325.58	0.2618	0.2269		
Mercury	-12889-08-16 04:19 J	-2986056.35	-2986056.32	-2986056.28	0.2718	0.2532		
Mercury	-12883-08-25 22:33 J	-2983855.62	-2983855.56	-2983855.50	0.2715	0.2231		
Mercury	-12876-08-18 22:04 J	-2981305.67	-2981305.58	-2981305.48	0.2717	0.1292		
Mercury	-12872-02-18 12:14 J	-2980026.07	-2980025.99	-2980025.90	0.2616	0.2243		
Mercury	-12863-08-21 15:50 J	-2976554.95	-2976554.84	-2976554.73	0.2717	0.0067		
Mercury	-12859-02-21 19:55 J	-2975274.83	-2975274.67	-2975274.51	0.2617	0.0277		
Mercury	-12850-08-24 09:35 J	-2971804.20	-2971804.10	-2971804.00	0.2716	0.1213		
Mercury	-12843-08-17 09:07 J	-2969254.17	-2969254.12	-2969254.06	0.2718	0.2291		
Mercury	-12837-08-26 03:21 J	-2967053.40	-2967053.36	-2967053.32	0.2715	0.2484		

Venus	-12836-05-10 22:19 J	-2966795.73	-2966795.57	-2966795.41	0.2670	0.0460
Mercury	-12830-08-20 02:52 J	-2964503.48	-2964503.38	-2964503.28	0.2717	0.1048
Mercury	-12826-02-19 18:57 J	-2963223.82	-2963223.71	-2963223.59	0.2616	0.1767
Mercury	-12817-08-21 20:38 J	-2959752.75	-2959752.64	-2959752.53	0.2717	0.0205
Mercury	-12813-02-23 02:38 J	-2958472.55	-2958472.39	-2958472.24	0.2617	0.0753
Mercury	-12804-08-24 14:24 J	-2955001.99	-2955001.90	-2955001.81	0.2716	0.1465
Mercury	-12797-08-17 13:55 J	-2952451.98	-2952451.92	-2952451.85	0.2718	0.2049
Mercury	-12784-08-20 07:40 J	-2947701.28	-2947701.18	-2947701.08	0.2717	0.0805
Mercury	-12780-02-20 01:55 J	-2946421.56	-2946421.42	-2946421.28	0.2616	0.1274
Mercury	-12771-08-23 01:26 J	-2942950.55	-2942950.44	-2942950.33	0.2716	0.0451
Mercury	-12767-02-23 09:07 J	-2941670.26	-2941670.12	-2941669.97	0.2617	0.1225
Mercury	-12758-08-25 19:11 J	-2938199.78	-2938199.70	-2938199.62	0.2716	0.1714
Mercury	-12751-08-18 18:43 J	-2935649.80	-2935649.72	-2935649.64	0.2718	0.1801
Mercury	-12738-08-21 12:28 J	-2930899.09	-2930898.98	-2930898.87	0.2717	0.0557
Mercury	-12734-02-21 08:38 J	-2929619.29	-2929619.14	-2929618.99	0.2616	0.0796
Mercury	-12725-08-23 06:14 J	-2926148.34	-2926148.24	-2926148.14	0.2716	0.0696
Mercury	-12721-02-24 15:50 J	-2924867.96	-2924867.84	-2924867.71	0.2617	0.1703
Mercury	-12712-08-26 00:00 J	-2921397.57	-2921397.50	-2921397.43	0.2716	0.1964
Mercury	-12705-08-18 23:31 J	-2918847.60	-2918847.52	-2918847.43	0.2718	0.1559
Mercury	-12692-08-21 17:16 J	-2914096.89	-2914096.78	-2914096.67	0.2717	0.0308
Venus	-12691-11-06 10:19 J	-2913655.21	-2913655.07	-2913654.92	0.2664	0.1047
Mercury	-12688-02-21 15:21 J	-2912817.02	-2912816.86	-2912816.70	0.2616	0.0311
Venus	-12683-11-04 03:35 J	-2910735.44	-2910735.35	-2910735.26	0.2666	0.2190
Mercury	-12679-08-24 11:02 J	-2909346.14	-2909346.04	-2909345.94	0.2716	0.0951
Mercury	-12675-02-24 22:33 J	-2908065.64	-2908065.56	-2908065.47	0.2617	0.2179
Mercury	-12672-08-17 10:48 J	-2906796.08	-2906796.05	-2906796.02	0.2718	0.2552
Mercury	-12666-08-27 04:48 J	-2904595.36	-2904595.30	-2904595.24	0.2716	0.2216
Mercury	-12659-08-20 04:19 J	-2902045.41	-2902045.32	-2902045.22	0.2717	0.1313
Mercury	-12655-02-19 14:38 J	-2900765.96	-2900765.89	-2900765.83	0.2616	0.2366
Mercury	-12646-08-22 22:04 J	-2897294.69	-2897294.58	-2897294.47	0.2717	0.0077

Mercury	-12642-02-22 22:04 J	-2896014.74	-2896014.58	-2896014.42	0.2617	0.0173
Mercury	-12633-08-24 15:50 J	-2892543.94	-2892543.84	-2892543.74	0.2716	0.1204
Mercury	-12626-08-18 15:35 J	-2889993.91	-2889993.85	-2889993.80	0.2718	0.2307
Mercury	-12620-08-27 09:35 J	-2887793.14	-2887793.10	-2887793.06	0.2716	0.2473
Mercury	-12613-08-20 09:07 J	-2885243.21	-2885243.12	-2885243.02	0.2717	0.1072
Mercury	-12609-02-20 21:21 J	-2883963.72	-2883963.61	-2883963.50	0.2616	0.1875
Mercury	-12600-08-23 02:52 J	-2880492.49	-2880492.38	-2880492.27	0.2717	0.0198
Mercury	-12596-02-23 04:48 J	-2879212.45	-2879212.30	-2879212.14	0.2616	0.0653
Venus	-12593-05-10 21:21 J	-2878039.76	-2878039.61	-2878039.45	0.2668	0.0524
Mercury	-12587-08-25 20:38 J	-2875741.73	-2875741.64	-2875741.55	0.2716	0.1452
Mercury	-12580-08-18 20:24 J	-2873191.72	-2873191.65	-2873191.58	0.2718	0.2064
Mercury	-12567-08-21 13:55 J	-2868441.02	-2868440.92	-2868440.81	0.2717	0.0826
Mercury	-12563-02-21 04:04 J	-2867161.47	-2867161.33	-2867161.20	0.2616	0.1398
Mercury	-12554-08-24 07:40 J	-2863690.28	-2863690.18	-2863690.07	0.2717	0.0439
Mercury	-12550-02-24 11:31 J	-2862410.16	-2862410.02	-2862409.87	0.2617	0.1126
Mercury	-12541-08-26 01:26 J	-2858939.52	-2858939.44	-2858939.35	0.2716	0.1703
Mercury	-12534-08-20 01:11 J	-2856389.53	-2856389.45	-2856389.37	0.2718	0.1822
Mercury	-12521-08-21 18:43 J	-2851638.82	-2851638.72	-2851638.61	0.2717	0.0584
Mercury	-12517-02-22 10:48 J	-2850359.20	-2850359.05	-2850358.90	0.2616	0.0907
Mercury	-12508-08-24 12:28 J	-2846888.08	-2846887.98	-2846887.87	0.2717	0.0690
Mercury	-12504-02-24 18:14 J	-2845607.87	-2845607.74	-2845607.61	0.2617	0.1601
Mercury	-12495-08-27 06:14 J	-2842137.31	-2842137.24	-2842137.16	0.2716	0.1953
Mercury	-12488-08-20 06:00 J	-2839587.34	-2839587.25	-2839587.17	0.2718	0.1578
Mercury	-12475-08-22 23:31 J	-2834836.62	-2834836.52	-2834836.41	0.2717	0.0343
Mercury	-12471-02-22 17:31 J	-2833556.93	-2833556.77	-2833556.61	0.2616	0.0428
Mercury	-12462-08-25 17:16 J	-2830085.88	-2830085.78	-2830085.68	0.2717	0.0937
Mercury	-12458-02-26 00:57 J	-2828805.55	-2828805.46	-2828805.36	0.2617	0.2086
Mercury	-12455-08-18 17:02 J	-2827535.82	-2827535.79	-2827535.75	0.2718	0.2571
Mercury	-12449-08-27 11:02 J	-2825335.10	-2825335.04	-2825334.98	0.2716	0.2210
Venus	-12448-11-06 13:40 J	-2824899.07	-2824898.93	-2824898.79	0.2666	0.1251

Mercury	-12442-08-21 10:48 J	-2822785.14	-2822785.05	-2822784.96	0.2718	0.1330
Venus	-12440-11-04 06:57 J	-2821979.31	-2821979.21	-2821979.10	0.2668	0.1981
Mercury	-12438-02-20 16:48 J	-2821505.85	-2821505.80	-2821505.75	0.2616	0.2483
Mercury	-12429-08-23 04:19 J	-2818034.42	-2818034.32	-2818034.21	0.2717	0.0133
Mercury	-12425-02-24 00:28 J	-2816754.64	-2816754.48	-2816754.32	0.2616	0.0078
Mercury	-12416-08-25 22:04 J	-2813283.68	-2813283.58	-2813283.48	0.2717	0.1186
Mercury	-12412-02-26 07:40 J	-2812003.21	-2812003.18	-2812003.15	0.2617	0.2560
Mercury	-12409-08-18 21:50 J	-2810733.64	-2810733.59	-2810733.53	0.2718	0.2328
Mercury	-12403-08-28 15:50 J	-2808532.88	-2808532.84	-2808532.79	0.2716	0.2460
Mercury	-12396-08-21 15:35 J	-2805982.95	-2805982.85	-2805982.75	0.2718	0.1079
Mercury	-12392-02-20 23:31 J	-2804703.62	-2804703.52	-2804703.42	0.2616	0.1997
Mercury	-12383-08-24 09:07 J	-2801232.22	-2801232.12	-2801232.01	0.2717	0.0207
Mercury	-12379-02-24 07:11 J	-2799952.36	-2799952.20	-2799952.05	0.2616	0.0547
Mercury	-12370-08-27 02:52 J	-2796481.47	-2796481.38	-2796481.29	0.2717	0.1438
Mercury	-12363-08-20 02:38 J	-2793931.45	-2793931.39	-2793931.32	0.2718	0.2084
Mercury	-12357-08-28 20:52 J	-2791730.63	-2791730.63	-2791730.63	0.2716	0.2715
Venus	-12350-05-11 20:38 J	-2789283.80	-2789283.64	-2789283.49	0.2666	0.0587
Mercury	-12350-08-22 20:24 J	-2789180.75	-2789180.65	-2789180.55	0.2718	0.0834
Mercury	-12346-02-22 06:14 J	-2787901.37	-2787901.24	-2787901.10	0.2616	0.1504
Mercury	-12337-08-24 13:55 J	-2784430.02	-2784429.92	-2784429.81	0.2717	0.0439
Mercury	-12333-02-25 13:55 J	-2783150.07	-2783149.92	-2783149.77	0.2616	0.1030
Mercury	-12324-08-27 07:40 J	-2779679.26	-2779679.18	-2779679.09	0.2716	0.1696
Mercury	-12317-08-20 07:26 J	-2777129.26	-2777129.19	-2777129.11	0.2718	0.1841
Mercury	-12304-08-23 01:11 J	-2772378.56	-2772378.45	-2772378.35	0.2717	0.0589
Mercury	-12300-02-22 12:57 J	-2771099.10	-2771098.96	-2771098.81	0.2616	0.1026
Mercury	-12291-08-25 18:57 J	-2767627.82	-2767627.71	-2767627.61	0.2717	0.0683
Mercury	-12287-02-25 20:38 J	-2766347.77	-2766347.64	-2766347.51	0.2616	0.1516
Mercury	-12278-08-28 12:43 J	-2762877.05	-2762876.97	-2762876.90	0.2716	0.1949
Mercury	-12271-08-21 12:14 J	-2760327.07	-2760326.99	-2760326.90	0.2718	0.1594
Mercury	-12258-08-24 06:00 J	-2755576.36	-2755576.25	-2755576.15	0.2717	0.0347

Mercury	-12254-02-23 19:55 J	-2754296.83	-2754296.67	-2754296.51	0.2616	0.0531
Mercury	-12245-08-25 23:45 J	-2750825.62	-2750825.51	-2750825.41	0.2717	0.0931
Mercury	-12241-02-27 03:21 J	-2749545.47	-2749545.36	-2749545.26	0.2616	0.1993
Mercury	-12238-08-19 23:31 J	-2748275.55	-2748275.52	-2748275.49	0.2718	0.2592
Mercury	-12232-08-28 17:31 J	-2746074.84	-2746074.77	-2746074.71	0.2716	0.2198
Mercury	-12225-08-21 17:02 J	-2743524.88	-2743524.79	-2743524.69	0.2718	0.1347
Mercury	-12221-02-21 18:57 J	-2742245.72	-2742245.71	-2742245.71	0.2615	0.2615
Mercury	-12212-08-24 10:48 J	-2738774.16	-2738774.05	-2738773.94	0.2717	0.0110
Mercury	-12208-02-24 02:38 J	-2737494.56	-2737494.39	-2737494.23	0.2616	0.0082
Venus	-12205-11-06 17:02 J	-2736142.92	-2736142.79	-2736142.66	0.2667	0.1454
Mercury	-12199-08-27 04:33 J	-2734023.41	-2734023.31	-2734023.22	0.2717	0.1177
Venus	-12197-11-04 09:50 J	-2733223.20	-2733223.09	-2733222.97	0.2669	0.1814
Mercury	-12195-02-27 10:04 J	-2732743.13	-2732743.08	-2732743.03	0.2617	0.2473
Mercury	-12192-08-20 04:19 J	-2731473.37	-2731473.32	-2731473.27	0.2718	0.2348
Mercury	-12186-08-29 22:19 J	-2729272.62	-2729272.57	-2729272.53	0.2716	0.2452
Mercury	-12179-08-22 21:50 J	-2726722.69	-2726722.59	-2726722.49	0.2718	0.1101
Mercury	-12175-02-22 01:40 J	-2725443.52	-2725443.43	-2725443.33	0.2616	0.2114
Mercury	-12166-08-25 15:35 J	-2721971.96	-2721971.85	-2721971.74	0.2717	0.0171
Mercury	-12162-02-25 09:21 J	-2720692.27	-2720692.11	-2720691.95	0.2616	0.0443
Mercury	-12153-08-27 09:21 J	-2717221.20	-2717221.11	-2717221.02	0.2717	0.1431
Mercury	-12146-08-21 09:07 J	-2714671.19	-2714671.12	-2714671.06	0.2718	0.2101
Mercury	-12140-08-30 03:07 J	-2712470.38	-2712470.37	-2712470.37	0.2716	0.2704
Mercury	-12133-08-23 02:38 J	-2709920.49	-2709920.39	-2709920.29	0.2718	0.0853
Mercury	-12129-02-23 08:24 J	-2708641.27	-2708641.15	-2708641.02	0.2616	0.1625
Mercury	-12120-08-25 20:24 J	-2705169.76	-2705169.65	-2705169.55	0.2717	0.0410
Mercury	-12116-02-25 16:04 J	-2703889.98	-2703889.83	-2703889.68	0.2616	0.0933
Venus	-12107-05-11 19:55 J	-2700527.83	-2700527.67	-2700527.51	0.2664	0.0601
Mercury	-12107-08-28 14:09 J	-2700419.00	-2700418.91	-2700418.83	0.2717	0.1680
Mercury	-12100-08-21 13:55 J	-2697869.00	-2697868.92	-2697868.85	0.2718	0.1856
Mercury	-12087-08-24 07:26 J	-2693118.29	-2693118.19	-2693118.08	0.2718	0.0604

Mercury	-12083-02-23 15:21 J	-2691839.01	-2691838.86	-2691838.72	0.2616	0.1128
Mercury	-12074-08-27 01:11 J	-2688367.56	-2688367.45	-2688367.35	0.2717	0.0660
Mercury	-12070-02-26 22:48 J	-2687087.68	-2687087.55	-2687087.41	0.2616	0.1422
Mercury	-12061-08-28 18:57 J	-2683616.79	-2683616.71	-2683616.64	0.2717	0.1933
Mercury	-12054-08-22 18:43 J	-2681066.81	-2681066.72	-2681066.64	0.2718	0.1611
Mercury	-12041-08-24 12:14 J	-2676316.10	-2676315.99	-2676315.88	0.2718	0.0355
Mercury	-12037-02-24 22:04 J	-2675036.74	-2675036.58	-2675036.43	0.2616	0.0646
Mercury	-12028-08-27 06:00 J	-2671565.35	-2671565.25	-2671565.15	0.2717	0.0912
Mercury	-12024-02-27 05:31 J	-2670285.38	-2670285.27	-2670285.16	0.2616	0.1901
Mercury	-12021-08-20 05:45 J	-2669015.28	-2669015.26	-2669015.23	0.2718	0.2613
Mercury	-12015-08-29 23:45 J	-2666814.57	-2666814.51	-2666814.45	0.2717	0.2187
Mercury	-12008-08-22 23:31 J	-2664264.62	-2664264.52	-2664264.43	0.2718	0.1365

12TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 12th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-11995-08-25 17:02 J	-2659513.90	-2659513.79	-2659513.68	0.2718	0.0117		
Mercury	-11991-02-25 04:48 J	-2658234.46	-2658234.30	-2658234.14	0.2616	0.0149		
Mercury	-11982-08-28 10:48 J	-2654763.15	-2654763.05	-2654762.95	0.2717	0.1166		
Mercury	-11978-02-28 12:14 J	-2653483.05	-2653482.99	-2653482.92	0.2616	0.2387		
Mercury	-11975-08-21 10:33 J	-2652213.11	-2652213.06	-2652213.01	0.2718	0.2366		
Mercury	-11969-08-30 04:33 J	-2650012.36	-2650012.31	-2650012.27	0.2717	0.2442		
Mercury	-11962-08-24 04:19 J	-2647462.42	-2647462.32	-2647462.23	0.2718	0.1121		

Venus	-11962-11-07 19:55 J	-2647386.79	-2647386.67	-2647386.55	0.2669	0.1620
Mercury	-11958-02-23 03:50 J	-2646183.42	-2646183.34	-2646183.26	0.2615	0.2239
Venus	-11954-11-05 12:57 J	-2644467.08	-2644466.96	-2644466.83	0.2671	0.1642
Mercury	-11949-08-25 21:50 J	-2642711.70	-2642711.59	-2642711.48	0.2718	0.0156
Mercury	-11945-02-26 11:31 J	-2641432.18	-2641432.02	-2641431.86	0.2616	0.0343
Mercury	-11936-08-28 15:35 J	-2637960.94	-2637960.85	-2637960.76	0.2717	0.1417
Mercury	-11929-08-21 15:21 J	-2635410.92	-2635410.86	-2635410.79	0.2718	0.2122
Mercury	-11923-08-31 09:21 J	-2633210.12	-2633210.11	-2633210.10	0.2716	0.2697
Mercury	-11916-08-24 09:07 J	-2630660.23	-2630660.12	-2630660.02	0.2718	0.0872
Mercury	-11912-02-23 10:33 J	-2629381.18	-2629381.06	-2629380.94	0.2615	0.1745
Mercury	-11903-08-27 02:38 J	-2625909.49	-2625909.39	-2625909.28	0.2718	0.0398
Mercury	-11899-02-26 18:14 J	-2624629.89	-2624629.74	-2624629.58	0.2616	0.0836
Mercury	-11890-08-29 20:24 J	-2621158.74	-2621158.65	-2621158.57	0.2717	0.1669
Mercury	-11883-08-22 20:09 J	-2618608.74	-2618608.66	-2618608.58	0.2718	0.1874
Mercury	-11870-08-25 13:55 J	-2613858.03	-2613857.92	-2613857.82	0.2718	0.0627
Mercury	-11866-02-24 17:16 J	-2612578.92	-2612578.78	-2612578.63	0.2615	0.1251
Venus	-11864-05-11 19:11 J	-2611771.86	-2611771.70	-2611771.54	0.2663	0.0658
Mercury	-11857-08-27 07:26 J	-2609107.29	-2609107.19	-2609107.08	0.2717	0.0649
Mercury	-11853-02-28 00:57 J	-2607827.59	-2607827.46	-2607827.32	0.2616	0.1315
Mercury	-11844-08-30 01:11 J	-2604356.53	-2604356.45	-2604356.38	0.2717	0.1921
Mercury	-11837-08-23 00:57 J	-2601806.54	-2601806.46	-2601806.37	0.2718	0.1627
Mercury	-11824-08-25 18:43 J	-2597055.83	-2597055.72	-2597055.62	0.2718	0.0380
Mercury	-11820-02-25 00:14 J	-2595776.64	-2595776.49	-2595776.33	0.2615	0.0747
Mercury	-11811-08-28 12:14 J	-2592305.09	-2592304.99	-2592304.89	0.2717	0.0898
Mercury	-11807-02-28 07:55 J	-2591025.29	-2591025.17	-2591025.06	0.2616	0.1810
Mercury	-11804-08-21 12:14 J	-2589755.02	-2589754.99	-2589754.97	0.2719	0.2629
Mercury	-11798-08-31 06:00 J	-2587554.31	-2587554.25	-2587554.19	0.2717	0.2176
Mercury	-11791-08-24 05:45 J	-2585004.35	-2585004.26	-2585004.17	0.2718	0.1378
Mercury	-11778-08-26 23:31 J	-2580253.63	-2580253.52	-2580253.42	0.2718	0.0158
Mercury	-11774-02-26 06:57 J	-2578974.37	-2578974.21	-2578974.05	0.2615	0.0261

Mercury	-11765-08-28 17:02 J	-2575502.89	-2575502.79	-2575502.69	0.2717	0.1151
Mercury	-11761-02-29 14:38 J	-2574222.96	-2574222.89	-2574222.81	0.2616	0.2302
Mercury	-11758-08-22 17:02 J	-2572952.84	-2572952.79	-2572952.74	0.2719	0.2385
Mercury	-11752-08-31 10:48 J	-2570752.10	-2570752.05	-2570752.00	0.2717	0.2429
Mercury	-11745-08-24 10:33 J	-2568202.16	-2568202.06	-2568201.96	0.2718	0.1131
Mercury	-11741-02-24 06:00 J	-2566923.32	-2566923.25	-2566923.18	0.2615	0.2357
Mercury	-11732-08-27 04:19 J	-2563451.43	-2563451.32	-2563451.22	0.2718	0.0179
Mercury	-11728-02-26 13:55 J	-2562172.08	-2562171.92	-2562171.76	0.2615	0.0245
Mercury	-11719-08-29 21:50 J	-2558700.68	-2558700.59	-2558700.50	0.2717	0.1405
Venus	-11719-11-07 23:02 J	-2558630.65	-2558630.54	-2558630.42	0.2670	0.1820
Mercury	-11712-08-22 21:50 J	-2556150.66	-2556150.59	-2556150.53	0.2719	0.2137
Venus	-11711-11-05 15:50 J	-2555710.96	-2555710.84	-2555710.71	0.2672	0.1481
Mercury	-11706-09-01 15:35 J	-2553949.86	-2553949.85	-2553949.84	0.2717	0.2686
Mercury	-11699-08-25 15:21 J	-2551399.96	-2551399.86	-2551399.76	0.2718	0.0881
Mercury	-11695-02-24 12:43 J	-2550121.08	-2550120.97	-2550120.85	0.2615	0.1858
Mercury	-11686-08-28 08:52 J	-2546649.23	-2546649.13	-2546649.02	0.2718	0.0401
Mercury	-11682-02-27 20:38 J	-2545369.80	-2545369.64	-2545369.49	0.2616	0.0730
Mercury	-11673-08-30 02:38 J	-2541898.47	-2541898.39	-2541898.30	0.2717	0.1660
Mercury	-11666-08-24 02:38 J	-2539348.47	-2539348.39	-2539348.32	0.2718	0.1893
Mercury	-11653-08-25 20:09 J	-2534597.76	-2534597.66	-2534597.55	0.2718	0.0631
Mercury	-11649-02-25 19:40 J	-2533318.82	-2533318.68	-2533318.54	0.2615	0.1356
Mercury	-11640-08-28 13:40 J	-2529847.03	-2529846.93	-2529846.82	0.2718	0.0644
Mercury	-11636-02-28 03:21 J	-2528567.50	-2528567.36	-2528567.22	0.2616	0.1222
Mercury	-11627-08-31 07:26 J	-2525096.26	-2525096.19	-2525096.11	0.2717	0.1915
Venus	-11621-05-11 18:43 J	-2523015.88	-2523015.72	-2523015.56	0.2661	0.0665
Mercury	-11620-08-24 07:26 J	-2522546.28	-2522546.19	-2522546.11	0.2718	0.1646
Mercury	-11607-08-27 00:57 J	-2517795.57	-2517795.46	-2517795.35	0.2718	0.0384
Mercury	-11603-02-26 02:24 J	-2516516.56	-2516516.40	-2516516.25	0.2615	0.0868
Mercury	-11594-08-29 18:28 J	-2513044.83	-2513044.73	-2513044.62	0.2718	0.0895
Mercury	-11590-03-01 10:04 J	-2511765.20	-2511765.08	-2511764.96	0.2616	0.1712

Mercury	-11587-08-22 18:28 J	-2510494.75	-2510494.73	-2510494.71	0.2719	0.2651
Mercury	-11581-08-31 12:14 J	-2508294.05	-2508293.99	-2508293.92	0.2717	0.2169
Mercury	-11574-08-25 12:14 J	-2505744.09	-2505743.99	-2505743.90	0.2718	0.1403
Mercury	-11561-08-27 05:45 J	-2500993.37	-2500993.26	-2500993.15	0.2718	0.0143
Mercury	-11557-02-27 09:07 J	-2499714.28	-2499714.12	-2499713.96	0.2615	0.0371
Mercury	-11548-08-29 23:16 J	-2496242.62	-2496242.53	-2496242.43	0.2718	0.1144
Mercury	-11544-03-01 16:48 J	-2494962.89	-2494962.80	-2494962.72	0.2616	0.2199
Mercury	-11541-08-22 23:16 J	-2493692.57	-2493692.53	-2493692.48	0.2719	0.2402
Mercury	-11535-09-01 17:02 J	-2491491.83	-2491491.79	-2491491.74	0.2717	0.2423
Mercury	-11528-08-25 16:48 J	-2488941.89	-2488941.80	-2488941.70	0.2718	0.1151
Mercury	-11524-02-24 08:09 J	-2487663.21	-2487663.16	-2487663.11	0.2615	0.2476
Mercury	-11515-08-28 10:33 J	-2484191.17	-2484191.06	-2484190.95	0.2718	0.0126
Mercury	-11511-02-27 15:50 J	-2482912.00	-2482911.84	-2482911.67	0.2615	0.0138
Mercury	-11502-08-31 04:04 J	-2479440.42	-2479440.33	-2479440.23	0.2717	0.1397
Mercury	-11495-08-24 04:04 J	-2476890.39	-2476890.33	-2476890.26	0.2719	0.2155
Mercury	-11489-09-01 21:50 J	-2474689.60	-2474689.59	-2474689.57	0.2717	0.2677
Mercury	-11482-08-26 21:35 J	-2472139.70	-2472139.60	-2472139.49	0.2718	0.0902
Mercury	-11478-02-25 14:52 J	-2470860.98	-2470860.88	-2470860.77	0.2615	0.1970
Venus	-11476-11-08 01:40 J	-2469874.53	-2469874.43	-2469874.32	0.2672	0.1953
Mercury	-11469-08-28 15:21 J	-2467388.97	-2467388.86	-2467388.75	0.2718	0.0374
Venus	-11468-11-05 18:43 J	-2466954.86	-2466954.72	-2466954.59	0.2674	0.1343
Mercury	-11465-02-28 22:48 J	-2466109.71	-2466109.55	-2466109.39	0.2615	0.0629
Mercury	-11456-08-31 09:07 J	-2462638.21	-2462638.12	-2462638.04	0.2717	0.1650
Mercury	-11449-08-24 08:52 J	-2460088.20	-2460088.13	-2460088.05	0.2719	0.1907
Mercury	-11436-08-27 02:24 J	-2455337.50	-2455337.40	-2455337.29	0.2718	0.0650
Mercury	-11432-02-25 21:35 J	-2454058.73	-2454058.60	-2454058.46	0.2615	0.1479
Mercury	-11423-08-29 20:09 J	-2450586.77	-2450586.66	-2450586.56	0.2718	0.0625
Mercury	-11419-03-01 05:31 J	-2449307.41	-2449307.27	-2449307.12	0.2615	0.1125
Mercury	-11410-09-01 13:55 J	-2445836.00	-2445835.92	-2445835.85	0.2718	0.1907
Mercury	-11403-08-25 13:40 J	-2443286.01	-2443285.93	-2443285.85	0.2719	0.1661

Mercury	-11390-08-28 07:11 J	-2438535.30	-2438535.20	-2438535.09	0.2718	0.0404
Mercury	-11386-02-27 04:33 J	-2437256.46	-2437256.31	-2437256.16	0.2615	0.0974
Venus	-11378-05-12 18:14 J	-2434259.90	-2434259.74	-2434259.58	0.2659	0.0689
Mercury	-11377-08-30 00:57 J	-2433784.56	-2433784.46	-2433784.36	0.2718	0.0879
Mercury	-11373-03-01 12:14 J	-2432505.11	-2432504.99	-2432504.86	0.2615	0.1619
Mercury	-11370-08-24 00:57 J	-2431234.48	-2431234.46	-2431234.44	0.2719	0.2667
Mercury	-11364-09-01 18:28 J	-2429033.79	-2429033.73	-2429033.66	0.2717	0.2161
Mercury	-11357-08-25 18:28 J	-2426483.82	-2426483.73	-2426483.64	0.2719	0.1410
Mercury	-11344-08-28 12:00 J	-2421733.10	-2421733.00	-2421732.89	0.2718	0.0167
Mercury	-11340-02-27 11:16 J	-2420454.19	-2420454.03	-2420453.87	0.2615	0.0480
Mercury	-11331-08-31 05:45 J	-2416982.36	-2416982.26	-2416982.16	0.2718	0.1130
Mercury	-11327-03-02 18:57 J	-2415702.80	-2415702.71	-2415702.61	0.2616	0.2111
Mercury	-11324-08-24 05:45 J	-2414432.31	-2414432.26	-2414432.22	0.2719	0.2422
Mercury	-11318-09-02 23:16 J	-2412231.57	-2412231.53	-2412231.48	0.2717	0.2416
Mercury	-11311-08-26 23:16 J	-2409681.63	-2409681.53	-2409681.43	0.2718	0.1163
Mercury	-11307-02-25 10:04 J	-2408403.09	-2408403.08	-2408403.06	0.2615	0.2600
Mercury	-11298-08-29 16:48 J	-2404930.90	-2404930.80	-2404930.69	0.2718	0.0135
Mercury	-11294-02-28 18:00 J	-2403651.91	-2403651.75	-2403651.58	0.2615	0.0071
Mercury	-11285-08-31 10:33 J	-2400180.15	-2400180.06	-2400179.97	0.2718	0.1385
Mercury	-11281-03-03 01:55 J	-2398900.44	-2398900.42	-2398900.41	0.2616	0.2603
Mercury	-11278-08-25 10:33 J	-2397630.13	-2397630.06	-2397630.00	0.2719	0.2179
Mercury	-11272-09-03 04:19 J	-2395429.34	-2395429.32	-2395429.31	0.2717	0.2671
Mercury	-11265-08-27 04:04 J	-2392879.43	-2392879.33	-2392879.23	0.2718	0.0914
Mercury	-11261-02-26 17:02 J	-2391600.89	-2391600.79	-2391600.70	0.2615	0.2101
Mercury	-11252-08-29 21:35 J	-2388128.70	-2388128.60	-2388128.49	0.2718	0.0363
Mercury	-11248-03-01 00:57 J	-2386849.62	-2386849.46	-2386849.30	0.2615	0.0524
Mercury	-11239-09-01 15:21 J	-2383377.95	-2383377.86	-2383377.78	0.2718	0.1640
Venus	-11233-11-08 04:33 J	-2381118.40	-2381118.31	-2381118.21	0.2674	0.2127
Mercury	-11232-08-25 15:21 J	-2380827.94	-2380827.86	-2380827.79	0.2719	0.1928
Venus	-11225-11-05 21:21 J	-2378198.75	-2378198.61	-2378198.47	0.2676	0.1202

Mercury	-11219-08-28 08:52 J	-2376077.24	-2376077.13	-2376077.03	0.2718	0.0665
Mercury	-11215-02-26 23:45 J	-2374798.64	-2374798.51	-2374798.38	0.2615	0.1589
Mercury	-11206-08-31 02:24 J	-2371326.50	-2371326.40	-2371326.29	0.2718	0.0612
Mercury	-11202-03-02 07:40 J	-2370047.33	-2370047.18	-2370047.03	0.2615	0.1025
Mercury	-11193-09-01 20:09 J	-2366575.74	-2366575.66	-2366575.59	0.2718	0.1893
Mercury	-11186-08-26 19:55 J	-2364025.75	-2364025.67	-2364025.58	0.2719	0.1677
Mercury	-11173-08-28 13:40 J	-2359275.04	-2359274.93	-2359274.83	0.2718	0.0409
Mercury	-11169-02-28 06:43 J	-2357996.37	-2357996.22	-2357996.08	0.2615	0.1091
Mercury	-11160-08-31 07:11 J	-2354524.30	-2354524.20	-2354524.10	0.2718	0.0863
Mercury	-11156-03-02 14:24 J	-2353245.03	-2353244.90	-2353244.77	0.2615	0.1523
Mercury	-11153-08-24 07:11 J	-2351974.21	-2351974.20	-2351974.18	0.2719	0.2685
Mercury	-11147-09-03 00:57 J	-2349773.53	-2349773.46	-2349773.40	0.2718	0.2148
Mercury	-11140-08-27 00:57 J	-2347223.56	-2347223.46	-2347223.37	0.2719	0.1429
Venus	-11135-05-12 18:00 J	-2345503.91	-2345503.75	-2345503.59	0.2657	0.0691
Mercury	-11127-08-29 18:28 J	-2342472.84	-2342472.73	-2342472.62	0.2718	0.0161
Mercury	-11123-02-28 13:26 J	-2341194.10	-2341193.94	-2341193.78	0.2615	0.0578
Mercury	-11114-09-01 12:00 J	-2337722.10	-2337722.00	-2337721.90	0.2718	0.1122
Mercury	-11110-03-03 21:21 J	-2336442.71	-2336442.61	-2336442.51	0.2615	0.2021
Mercury	-11107-08-25 12:00 J	-2335172.04	-2335172.00	-2335171.95	0.2719	0.2439
Mercury	-11101-09-03 05:45 J	-2332971.31	-2332971.26	-2332971.21	0.2718	0.2404
Mercury	-11094-08-28 05:31 J	-2330421.36	-2330421.27	-2330421.17	0.2719	0.1180
Mercury	-11081-08-29 23:16 J	-2325670.64	-2325670.53	-2325670.43	0.2718	0.0126
Mercury	-11077-02-29 20:09 J	-2324391.82	-2324391.66	-2324391.49	0.2615	0.0097
Mercury	-11068-09-01 16:48 J	-2320919.89	-2320919.80	-2320919.71	0.2718	0.1375
Mercury	-11064-03-04 04:04 J	-2319640.37	-2319640.33	-2319640.29	0.2615	0.2524
Mercury	-11061-08-25 16:48 J	-2318369.86	-2318369.80	-2318369.74	0.2719	0.2188
Mercury	-11055-09-04 10:33 J	-2316169.08	-2316169.06	-2316169.04	0.2718	0.2664
Mercury	-11048-08-28 10:19 J	-2313619.17	-2313619.07	-2313618.97	0.2719	0.0931
Mercury	-11044-02-26 18:57 J	-2312340.79	-2312340.71	-2312340.62	0.2615	0.2216
Mercury	-11035-08-31 04:04 J	-2308868.44	-2308868.33	-2308868.23	0.2718	0.0361

Mercury -11031-03-02 03:07 J -2307589.53 -2307589.37 -2307589.21 0.2615 0.0427

Mercury -11022-09-02 21:35 J -2304117.68 -2304117.60 -2304117.51 0.2718 0.1630

Mercury -11015-08-26 21:35 J -2301567.67 -2301567.60 -2301567.53 0.2719 0.1940

Mercury -11002-08-29 15:07 J -2296816.97 -2296816.87 -2296816.76 0.2719 0.0675

11TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 11th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-10998-02-28 01:55 J	-2295538.54	-2295538.42	-2295538.30	0.2615	0.1712		
Venus	-10990-11-09 07:11 J	-2292362.28	-2292362.20	-2292362.12	0.2675	0.2251		
Mercury	-10989-08-31 08:52 J	-2292066.24	-2292066.13	-2292066.03	0.2718	0.0611		
Mercury	-10985-03-02 09:50 J	-2290787.24	-2290787.09	-2290786.94	0.2615	0.0920		
Venus	-10982-11-06 23:45 J	-2289442.65	-2289442.51	-2289442.36	0.2678	0.1085		
Mercury	-10976-09-03 02:24 J	-2287315.48	-2287315.40	-2287315.32	0.2718	0.1884		
Mercury	-10969-08-27 02:24 J	-2284765.48	-2284765.40	-2284765.32	0.2719	0.1691		
Mercury	-10956-08-29 19:55 J	-2280014.77	-2280014.67	-2280014.56	0.2719	0.0425		
Mercury	-10952-02-28 08:38 J	-2278736.28	-2278736.14	-2278735.99	0.2615	0.1197		
Mercury	-10943-09-01 13:26 J	-2275264.04	-2275263.94	-2275263.83	0.2718	0.0864		
Mercury	-10939-03-03 16:33 J	-2273984.94	-2273984.81	-2273984.67	0.2615	0.1425		
Mercury	-10936-08-25 13:40 J	-2272713.94	-2272713.93	-2272713.92	0.2719	0.2701		
Mercury	-10930-09-04 07:11 J	-2270513.26	-2270513.20	-2270513.13	0.2718	0.2142		
Mercury	-10923-08-28 07:11 J	-2267963.29	-2267963.20	-2267963.11	0.2719	0.1441		
Mercury	-10910-08-31 00:43 J	-2263212.58	-2263212.47	-2263212.36	0.2718	0.0171		

Mercury	-10906-03-01 15:35 J	-2261934.01	-2261933.85	-2261933.70	0.2615	0.0695
Mercury	-10897-09-01 18:14 J	-2258461.83	-2258461.74	-2258461.64	0.2718	0.1114
Mercury	-10893-03-03 23:31 J	-2257182.63	-2257182.52	-2257182.41	0.2615	0.1928
Venus	-10892-05-12 17:45 J	-2256747.92	-2256747.76	-2256747.60	0.2655	0.0683
Mercury	-10890-08-26 18:28 J	-2255911.77	-2255911.73	-2255911.69	0.2719	0.2451
Mercury	-10884-09-04 12:00 J	-2253711.05	-2253711.00	-2253710.95	0.2718	0.2399
Mercury	-10877-08-28 12:00 J	-2251161.10	-2251161.00	-2251160.91	0.2719	0.1189
Mercury	-10864-08-31 05:31 J	-2246410.38	-2246410.27	-2246410.16	0.2719	0.0082
Mercury	-10860-03-01 22:33 J	-2245131.73	-2245131.56	-2245131.40	0.2615	0.0192
Mercury	-10851-09-02 23:02 J	-2241659.63	-2241659.54	-2241659.44	0.2718	0.1369
Mercury	-10847-03-05 06:14 J	-2240380.30	-2240380.24	-2240380.18	0.2615	0.2426
Mercury	-10844-08-26 23:16 J	-2239109.59	-2239109.53	-2239109.47	0.2719	0.2203
Mercury	-10838-09-05 16:48 J	-2236908.82	-2236908.80	-2236908.78	0.2718	0.2652
Mercury	-10831-08-29 16:48 J	-2234358.90	-2234358.80	-2234358.70	0.2719	0.0937
Mercury	-10827-02-27 21:07 J	-2233080.69	-2233080.62	-2233080.55	0.2614	0.2327
Mercury	-10818-09-01 10:19 J	-2229608.18	-2229608.07	-2229607.96	0.2718	0.0340
Mercury	-10814-03-03 05:16 J	-2228329.45	-2228329.28	-2228329.12	0.2615	0.0324
Mercury	-10805-09-03 04:04 J	-2224857.42	-2224857.33	-2224857.25	0.2718	0.1623
Mercury	-10798-08-28 04:04 J	-2222307.41	-2222307.33	-2222307.26	0.2719	0.1956
Mercury	-10785-08-29 21:35 J	-2217556.71	-2217556.60	-2217556.50	0.2719	0.0687
Mercury	-10781-02-29 04:04 J	-2216278.45	-2216278.33	-2216278.22	0.2615	0.1814
Mercury	-10772-09-01 15:07 J	-2212805.97	-2212805.87	-2212805.76	0.2718	0.0594
Mercury	-10768-03-03 12:00 J	-2211527.15	-2211527.00	-2211526.85	0.2615	0.0828
Mercury	-10759-09-04 08:52 J	-2208055.21	-2208055.13	-2208055.06	0.2718	0.1884
Mercury	-10752-08-28 08:38 J	-2205505.22	-2205505.14	-2205505.05	0.2719	0.1709
Venus	-10747-11-09 09:50 J	-2203606.16	-2203606.09	-2203606.02	0.2677	0.2391
Mercury	-10739-08-31 02:24 J	-2200754.51	-2200754.40	-2200754.30	0.2719	0.0444
Venus	-10739-11-07 02:24 J	-2200686.54	-2200686.40	-2200686.25	0.2679	0.0962
Mercury	-10735-03-01 10:48 J	-2199476.19	-2199476.05	-2199475.91	0.2615	0.1311
Mercury	-10726-09-02 19:55 J	-2196003.77	-2196003.67	-2196003.57	0.2718	0.0847

Mercury	-10722-03-04 18:43 J	-2194724.86	-2194724.72	-2194724.58	0.2615	0.1328
Mercury	-10713-09-04 13:26 J	-2191253.00	-2191252.94	-2191252.87	0.2718	0.2139
Mercury	-10706-08-29 13:26 J	-2188703.03	-2188702.94	-2188702.85	0.2719	0.1456
Mercury	-10693-08-31 07:11 J	-2183952.31	-2183952.20	-2183952.10	0.2719	0.0205
Mercury	-10689-03-01 17:31 J	-2182673.92	-2182673.77	-2182673.61	0.2615	0.0806
Mercury	-10680-09-03 00:43 J	-2179201.57	-2179201.47	-2179201.37	0.2718	0.1102
Mercury	-10676-03-05 01:40 J	-2177922.55	-2177922.43	-2177922.32	0.2615	0.1834
Mercury	-10673-08-27 00:43 J	-2176651.51	-2176651.47	-2176651.42	0.2719	0.2471
Mercury	-10667-09-05 18:14 J	-2174450.78	-2174450.74	-2174450.69	0.2718	0.2393
Mercury	-10660-08-29 18:14 J	-2171900.83	-2171900.74	-2171900.64	0.2719	0.1204
Venus	-10649-05-12 17:45 J	-2167991.92	-2167991.76	-2167991.60	0.2654	0.0663
Mercury	-10647-09-01 12:00 J	-2167150.11	-2167150.00	-2167149.90	0.2718	0.0129
Mercury	-10643-03-03 00:28 J	-2165871.65	-2165871.48	-2165871.32	0.2615	0.0309
Mercury	-10634-09-04 05:31 J	-2162399.36	-2162399.27	-2162399.18	0.2718	0.1357
Mercury	-10630-03-06 08:24 J	-2161120.22	-2161120.15	-2161120.08	0.2615	0.2329
Mercury	-10627-08-28 05:31 J	-2159849.33	-2159849.27	-2159849.21	0.2719	0.2220
Mercury	-10621-09-05 23:02 J	-2157648.56	-2157648.54	-2157648.52	0.2718	0.2648
Mercury	-10614-08-30 23:02 J	-2155098.64	-2155098.54	-2155098.44	0.2719	0.0953
Mercury	-10610-02-28 23:16 J	-2153820.59	-2153820.53	-2153820.48	0.2615	0.2445
Mercury	-10601-09-01 16:48 J	-2150347.91	-2150347.80	-2150347.70	0.2718	0.0346
Mercury	-10597-03-03 07:11 J	-2149069.36	-2149069.20	-2149069.03	0.2615	0.0224
Mercury	-10588-09-04 10:19 J	-2145597.16	-2145597.07	-2145596.99	0.2718	0.1615
Mercury	-10581-08-28 10:19 J	-2143047.14	-2143047.07	-2143047.00	0.2719	0.1967
Mercury	-10568-08-31 03:50 J	-2138296.44	-2138296.34	-2138296.23	0.2719	0.0699
Mercury	-10564-03-01 06:00 J	-2137018.36	-2137018.25	-2137018.14	0.2614	0.1933
Mercury	-10555-09-02 21:21 J	-2133545.71	-2133545.61	-2133545.50	0.2718	0.0592
Mercury	-10551-03-04 14:09 J	-2132267.07	-2132266.91	-2132266.76	0.2615	0.0724
Mercury	-10542-09-05 15:07 J	-2128794.95	-2128794.87	-2128794.80	0.2718	0.1869
Mercury	-10535-08-29 15:07 J	-2126244.95	-2126244.87	-2126244.79	0.2719	0.1716
Mercury	-10522-09-01 08:38 J	-2121494.24	-2121494.14	-2121494.03	0.2719	0.0445

Mercury	-10518-03-02 12:57 J	-2120216.10	-2120215.96	-2120215.83	0.2615	0.1426
Mercury	-10509-09-03 02:09 J	-2116743.51	-2116743.41	-2116743.30	0.2719	0.0844
Mercury	-10505-03-04 20:52 J	-2115464.77	-2115464.63	-2115464.48	0.2615	0.1242
Venus	-10504-11-09 12:14 J	-2114850.04	-2114849.99	-2114849.94	0.2679	0.2511
Mercury	-10496-09-05 19:55 J	-2111992.74	-2111992.67	-2111992.61	0.2718	0.2128
Venus	-10496-11-07 04:48 J	-2111930.45	-2111930.30	-2111930.15	0.2681	0.0864
Mercury	-10489-08-29 19:55 J	-2109442.76	-2109442.67	-2109442.58	0.2719	0.1464
Mercury	-10476-09-01 13:26 J	-2104692.05	-2104691.94	-2104691.83	0.2719	0.0192
Mercury	-10472-03-02 19:40 J	-2103413.83	-2103413.68	-2103413.53	0.2614	0.0912
Mercury	-10463-09-04 06:57 J	-2099941.31	-2099941.21	-2099941.11	0.2718	0.1098
Mercury	-10459-03-06 03:50 J	-2098662.47	-2098662.34	-2098662.22	0.2615	0.1738
Mercury	-10456-08-28 07:11 J	-2097391.24	-2097391.20	-2097391.16	0.2719	0.2484
Mercury	-10450-09-07 00:43 J	-2095190.52	-2095190.47	-2095190.42	0.2718	0.2386
Mercury	-10443-08-31 00:43 J	-2092640.57	-2092640.47	-2092640.37	0.2719	0.1213
Mercury	-10430-09-02 18:14 J	-2087889.85	-2087889.74	-2087889.63	0.2719	0.0072
Mercury	-10426-03-04 02:38 J	-2086611.55	-2086611.39	-2086611.23	0.2615	0.0396
Mercury	-10417-09-04 11:45 J	-2083139.10	-2083139.01	-2083138.91	0.2718	0.1353
Mercury	-10413-03-06 10:33 J	-2081860.14	-2081860.06	-2081859.98	0.2615	0.2250
Mercury	-10410-08-29 12:00 J	-2080589.06	-2080589.00	-2080588.94	0.2719	0.2233
Venus	-10406-05-13 17:45 J	-2079235.91	-2079235.76	-2079235.60	0.2652	0.0639
Mercury	-10404-09-07 05:31 J	-2078388.29	-2078388.27	-2078388.25	0.2718	0.2646
Mercury	-10397-08-31 05:31 J	-2075838.37	-2075838.27	-2075838.17	0.2719	0.0961
Mercury	-10393-03-01 01:12 J	-2074560.48	-2074560.45	-2074560.42	0.2614	0.2566
Mercury	-10384-09-02 23:02 J	-2071087.65	-2071087.54	-2071087.43	0.2719	0.0320
Mercury	-10380-03-04 09:21 J	-2069809.27	-2069809.11	-2069808.95	0.2615	0.0110
Mercury	-10371-09-05 16:33 J	-2066336.89	-2066336.81	-2066336.72	0.2718	0.1608
Mercury	-10364-08-29 16:47 J	-2063786.87	-2063786.80	-2063786.73	0.2719	0.1984
Mercury	-10351-09-01 10:19 J	-2059036.18	-2059036.07	-2059035.97	0.2719	0.0711
Mercury	-10347-03-02 07:55 J	-2057758.27	-2057758.17	-2057758.07	0.2615	0.2057
Mercury	-10338-09-04 03:50 J	-2054285.45	-2054285.34	-2054285.24	0.2719	0.0576

Mercury	-10334-03-05 16:19 J	-2053006.98	-2053006.82	-2053006.67	0.2615	0.0628
Mercury	-10325-09-05 21:21 J	-2049534.69	-2049534.61	-2049534.53	0.2718	0.1864
Mercury	-10318-08-30 21:35 J	-2046984.68	-2046984.60	-2046984.52	0.2719	0.1730
Mercury	-10305-09-01 15:07 J	-2042233.98	-2042233.87	-2042233.77	0.2719	0.0464
Mercury	-10301-03-02 14:52 J	-2040956.01	-2040955.88	-2040955.75	0.2614	0.1534
Mercury	-10292-09-04 08:38 J	-2037483.25	-2037483.14	-2037483.04	0.2718	0.0832
Mercury	-10288-03-05 23:02 J	-2036204.69	-2036204.54	-2036204.40	0.2615	0.1131
Mercury	-10279-09-07 02:09 J	-2032732.47	-2032732.41	-2032732.34	0.2718	0.2121
Mercury	-10272-08-31 02:24 J	-2030182.49	-2030182.40	-2030182.31	0.2719	0.1480
Venus	-10261-11-09 14:38 J	-2026093.92	-2026093.89	-2026093.86	0.2680	0.2623
Mercury	-10259-09-02 19:55 J	-2025431.78	-2025431.67	-2025431.57	0.2719	0.0224
Mercury	-10255-03-03 21:50 J	-2024153.74	-2024153.59	-2024153.44	0.2615	0.1012
Venus	-10253-11-07 06:57 J	-2023174.36	-2023174.21	-2023174.06	0.2683	0.0769
Mercury	-10246-09-05 13:26 J	-2020681.04	-2020680.94	-2020680.84	0.2719	0.1088
Mercury	-10242-03-07 06:00 J	-2019402.38	-2019402.25	-2019402.13	0.2615	0.1653
Mercury	-10239-08-29 13:40 J	-2018130.97	-2018130.93	-2018130.89	0.2719	0.2499
Mercury	-10233-09-07 06:57 J	-2015930.26	-2015930.21	-2015930.16	0.2718	0.2380
Mercury	-10226-09-01 06:57 J	-2013380.30	-2013380.21	-2013380.11	0.2719	0.1227
Mercury	-10213-09-03 00:28 J	-2008629.58	-2008629.48	-2008629.37	0.2719	0.0115
Mercury	-10209-03-04 04:33 J	-2007351.47	-2007351.31	-2007351.15	0.2614	0.0503
Mercury	-10200-09-05 18:14 J	-2003878.84	-2003878.74	-2003878.65	0.2719	0.1346
Mercury	-10196-03-07 12:43 J	-2002600.06	-2002599.97	-2002599.88	0.2615	0.2162
Mercury	-10193-08-29 18:14 J	-2001328.79	-2001328.74	-2001328.68	0.2719	0.2247
Mercury	-10187-09-08 11:45 J	-1999128.03	-1999128.01	-1999127.99	0.2718	0.2638
Mercury	-10180-09-01 11:45 J	-1996578.11	-1996578.01	-1996577.91	0.2719	0.0974
Mercury	-10167-09-04 05:16 J	-1991827.38	-1991827.28	-1991827.17	0.2719	0.0327
Mercury	-10163-03-05 11:31 J	-1990549.18	-1990549.02	-1990548.86	0.2615	0.0017
Venus	-10163-05-13 18:00 J	-1990479.90	-1990479.75	-1990479.59	0.2650	0.0591
Mercury	-10154-09-06 23:02 J	-1987076.63	-1987076.54	-1987076.46	0.2719	0.1603
Mercury	-10147-08-30 23:02 J	-1984526.61	-1984526.54	-1984526.47	0.2719	0.1994

Mercury	-10134-09-02 16:33 J	-1979775.91	-1979775.81	-1979775.70	0.2719	0.0717
Mercury	-10130-03-03 10:04 J	-1978498.17	-1978498.08	-1978497.99	0.2614	0.2163
Mercury	-10121-09-04 10:04 J	-1975025.18	-1975025.08	-1975024.97	0.2719	0.0575
Mercury	-10117-03-05 18:14 J	-1973746.90	-1973746.74	-1973746.58	0.2615	0.0525
Mercury	-10108-09-07 03:50 J	-1970274.42	-1970274.34	-1970274.27	0.2718	0.1861
Mercury	-10101-08-31 03:50 J	-1967724.42	-1967724.34	-1967724.26	0.2719	0.1741
Mercury	-10088-09-02 21:21 J	-1962973.71	-1962973.61	-1962973.50	0.2719	0.0463
Mercury	-10084-03-03 17:02 J	-1961695.92	-1961695.79	-1961695.67	0.2614	0.1643
Mercury	-10075-09-05 14:52 J	-1958222.98	-1958222.88	-1958222.77	0.2719	0.0829
Mercury	-10071-03-07 01:12 J	-1956944.60	-1956944.45	-1956944.30	0.2615	0.1042
Mercury	-10062-09-08 08:38 J	-1953472.21	-1953472.14	-1953472.08	0.2718	0.2119
Mercury	-10055-09-01 08:38 J	-1950922.23	-1950922.14	-1950922.05	0.2719	0.1490
Mercury	-10042-09-04 02:09 J	-1946171.52	-1946171.41	-1946171.30	0.2719	0.0208
Mercury	-10038-03-04 23:45 J	-1944893.66	-1944893.51	-1944893.36	0.2614	0.1131
Mercury	-10029-09-05 19:40 J	-1941420.78	-1941420.68	-1941420.58	0.2719	0.1082
Mercury	-10025-03-07 07:55 J	-1940142.30	-1940142.17	-1940142.04	0.2615	0.1550
Mercury	-10022-08-30 19:55 J	-1938870.71	-1938870.67	-1938870.63	0.2719	0.2508
Mercury	-10016-09-08 13:26 J	-1936669.99	-1936669.94	-1936669.89	0.2718	0.2378
Venus	-10010-11-08 09:21 J	-1934418.26	-1934418.11	-1934417.96	0.2684	0.0683
Mercury	-10009-09-01 13:26 J	-1934120.04	-1934119.94	-1934119.85	0.2719	0.1238

10TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 10th millennium BCE.

PLANET	MAX- TRANSIT	C	START	MAX	END	SUNRAD	DEPTH	S
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TIME

Mercury	-9996-09-04 06:57 J	-1929369.32	-1929369.21	-1929369.10	0.2719	0.0046
Mercury	-9992-03-05 06:43 J	-1928091.38	-1928091.22	-1928091.06	0.2615	0.0611
Mercury	-9983-09-07 00:28 J	-1924618.57	-1924618.48	-1924618.39	0.2719	0.1338
Mercury	-9979-03-08 14:38 J	-1923339.98	-1923339.89	-1923339.79	0.2615	0.2065
Mercury	-9976-08-31 00:43 J	-1922068.53	-1922068.47	-1922068.41	0.2719	0.2257
Mercury	-9970-09-09 18:00 J	-1919867.77	-1919867.75	-1919867.72	0.2718	0.2635
Mercury	-9963-09-02 18:14 J	-1917317.84	-1917317.74	-1917317.64	0.2719	0.0980
Mercury	-9950-09-05 11:45 J	-1912567.12	-1912567.01	-1912566.90	0.2719	0.0303
Mercury	-9946-03-06 13:26 J	-1911289.10	-1911288.94	-1911288.77	0.2614	0.0097
Mercury	-9937-09-07 05:16 J	-1907816.37	-1907816.28	-1907816.19	0.2718	0.1593
Mercury	-9933-03-08 21:35 J	-1906537.63	-1906537.60	-1906537.58	0.2615	0.2572
Mercury	-9930-09-01 05:31 J	-1905266.34	-1905266.27	-1905266.20	0.2719	0.2005
Venus	-9920-05-13 18:28 J	-1901723.89	-1901723.73	-1901723.57	0.2649	0.0541
Mercury	-9917-09-02 23:02 J	-1900515.65	-1900515.54	-1900515.44	0.2719	0.0726
Mercury	-9913-03-03 12:14 J	-1899238.07	-1899237.99	-1899237.92	0.2614	0.2271
Mercury	-9904-09-05 16:33 J	-1895764.92	-1895764.81	-1895764.71	0.2719	0.0563
Mercury	-9900-03-06 20:24 J	-1894486.81	-1894486.65	-1894486.49	0.2614	0.0429
Mercury	-9891-09-08 10:04 J	-1891014.16	-1891014.08	-1891014.00	0.2719	0.1853
Mercury	-9884-09-01 10:19 J	-1888464.15	-1888464.07	-1888463.99	0.2719	0.1755
Mercury	-9871-09-04 03:50 J	-1883713.45	-1883713.34	-1883713.24	0.2719	0.0475
Mercury	-9867-03-04 18:57 J	-1882435.83	-1882435.71	-1882435.59	0.2614	0.1758
Mercury	-9858-09-06 21:21 J	-1878962.71	-1878962.61	-1878962.51	0.2719	0.0820
Mercury	-9854-03-08 03:07 J	-1877684.52	-1877684.37	-1877684.22	0.2615	0.0941
Mercury	-9845-09-08 14:52 J	-1874211.95	-1874211.88	-1874211.81	0.2719	0.2114
Mercury	-9838-09-02 15:07 J	-1871661.96	-1871661.87	-1871661.79	0.2719	0.1501
Mercury	-9825-09-04 08:38 J	-1866911.25	-1866911.14	-1866911.04	0.2719	0.0231
Mercury	-9821-03-05 01:40 J	-1865633.57	-1865633.43	-1865633.28	0.2614	0.1240
Mercury	-9812-09-07 02:09 J	-1862160.51	-1862160.41	-1862160.32	0.2719	0.1079
Mercury	-9808-03-08 10:04 J	-1860882.22	-1860882.08	-1860881.95	0.2614	0.1458

Mercury	-9805-08-31 02:24 J	-1859610.44	-1859610.40	-1859610.37	0.2719	0.2525
Mercury	-9799-09-09 19:40 J	-1857409.73	-1857409.68	-1857409.63	0.2718	0.2371
Mercury	-9792-09-02 19:55 J	-1854859.77	-1854859.67	-1854859.58	0.2719	0.1249
Mercury	-9779-09-05 13:26 J	-1850109.05	-1850108.94	-1850108.84	0.2719	0.0117
Mercury	-9775-03-06 08:38 J	-1848831.30	-1848831.14	-1848830.98	0.2614	0.0723
Venus	-9767-11-08 11:02 J	-1845662.19	-1845662.04	-1845661.88	0.2686	0.0636
Mercury	-9766-09-08 06:57 J	-1845358.31	-1845358.21	-1845358.12	0.2719	0.1334
Mercury	-9762-03-09 16:47 J	-1844079.90	-1844079.80	-1844079.69	0.2615	0.1970
Mercury	-9759-09-01 06:57 J	-1842808.26	-1842808.21	-1842808.15	0.2719	0.2274
Mercury	-9753-09-10 00:28 J	-1840607.50	-1840607.48	-1840607.46	0.2718	0.2630
Mercury	-9746-09-04 00:28 J	-1838057.58	-1838057.48	-1838057.38	0.2719	0.0996
Mercury	-9733-09-05 18:00 J	-1833306.85	-1833306.75	-1833306.64	0.2719	0.0315
Mercury	-9729-03-06 15:35 J	-1832029.02	-1832028.85	-1832028.69	0.2614	0.0201
Mercury	-9720-09-08 11:31 J	-1828556.10	-1828556.02	-1828555.93	0.2719	0.1594
Mercury	-9716-03-09 23:45 J	-1827277.56	-1827277.51	-1827277.47	0.2615	0.2484
Mercury	-9713-09-01 11:45 J	-1826006.08	-1826006.01	-1826005.94	0.2719	0.2022
Mercury	-9700-09-04 05:16 J	-1821255.38	-1821255.28	-1821255.17	0.2719	0.0740
Mercury	-9696-03-04 13:55 J	-1819977.98	-1819977.92	-1819977.85	0.2614	0.2394
Mercury	-9687-09-06 22:47 J	-1816504.65	-1816504.55	-1816504.44	0.2719	0.0554
Mercury	-9683-03-07 22:19 J	-1815226.73	-1815226.57	-1815226.41	0.2615	0.0316
Venus	-9677-05-13 18:43 J	-1812967.88	-1812967.72	-1812967.56	0.2647	0.0497
Mercury	-9674-09-09 16:19 J	-1811753.89	-1811753.82	-1811753.74	0.2719	0.1851
Mercury	-9667-09-02 16:33 J	-1809203.89	-1809203.81	-1809203.73	0.2719	0.1763
Mercury	-9654-09-05 10:04 J	-1804453.18	-1804453.08	-1804452.97	0.2719	0.0484
Mercury	-9650-03-05 20:52 J	-1803175.74	-1803175.63	-1803175.52	0.2614	0.1870
Mercury	-9641-09-07 03:35 J	-1799702.45	-1799702.35	-1799702.25	0.2719	0.0808
Mercury	-9637-03-08 05:16 J	-1798424.43	-1798424.28	-1798424.13	0.2615	0.0845
Mercury	-9628-09-09 21:07 J	-1794951.68	-1794951.62	-1794951.55	0.2719	0.2107
Mercury	-9621-09-02 21:21 J	-1792401.70	-1792401.61	-1792401.52	0.2719	0.1509
Mercury	-9608-09-05 14:52 J	-1787650.99	-1787650.88	-1787650.77	0.2719	0.0221

Mercury	-9604-03-06 03:50 J	-1786373.48	-1786373.34	-1786373.20	0.2614	0.1349
Mercury	-9595-09-08 08:24 J	-1782900.25	-1782900.15	-1782900.05	0.2719	0.1068
Mercury	-9591-03-09 12:00 J	-1781622.14	-1781622.00	-1781621.86	0.2615	0.1360
Mercury	-9588-09-01 08:38 J	-1780350.17	-1780350.14	-1780350.10	0.2719	0.2537
Mercury	-9582-09-11 01:55 J	-1778149.47	-1778149.42	-1778149.37	0.2719	0.2365
Mercury	-9575-09-04 02:09 J	-1775599.50	-1775599.41	-1775599.31	0.2719	0.1253
Mercury	-9562-09-06 19:40 J	-1770848.79	-1770848.68	-1770848.57	0.2719	0.0034
Mercury	-9558-03-07 10:47 J	-1769571.21	-1769571.05	-1769570.90	0.2614	0.0820
Mercury	-9549-09-08 13:12 J	-1766098.04	-1766097.95	-1766097.86	0.2719	0.1329
Mercury	-9545-03-09 18:57 J	-1764819.82	-1764819.71	-1764819.60	0.2614	0.1881
Mercury	-9542-09-02 13:26 J	-1763547.99	-1763547.94	-1763547.88	0.2719	0.2282
Mercury	-9536-09-11 06:43 J	-1761347.24	-1761347.22	-1761347.19	0.2719	0.2629
Mercury	-9529-09-04 06:57 J	-1758797.31	-1758797.21	-1758797.11	0.2719	0.1000
Venus	-9524-11-08 13:12 J	-1756906.10	-1756905.95	-1756905.80	0.2687	0.0560
Mercury	-9516-09-07 00:28 J	-1754046.59	-1754046.48	-1754046.38	0.2719	0.0294
Mercury	-9512-03-07 17:31 J	-1752768.93	-1752768.77	-1752768.61	0.2614	0.0306
Mercury	-9503-09-09 18:00 J	-1749295.84	-1749295.75	-1749295.66	0.2719	0.1586
Mercury	-9499-03-11 01:40 J	-1748017.49	-1748017.43	-1748017.36	0.2615	0.2401
Mercury	-9496-09-02 18:14 J	-1746745.81	-1746745.74	-1746745.67	0.2719	0.2026
Mercury	-9483-09-05 11:45 J	-1741995.12	-1741995.01	-1741994.91	0.2719	0.0746
Mercury	-9479-03-05 15:50 J	-1740717.88	-1740717.84	-1740717.79	0.2614	0.2516
Mercury	-9470-09-08 05:16 J	-1737244.39	-1737244.28	-1737244.18	0.2719	0.0548
Mercury	-9466-03-09 00:28 J	-1735966.65	-1735966.48	-1735966.32	0.2614	0.0227
Mercury	-9457-09-09 22:47 J	-1732493.63	-1732493.55	-1732493.47	0.2719	0.1844
Mercury	-9450-09-03 23:02 J	-1729943.62	-1729943.54	-1729943.46	0.2719	0.1774
Mercury	-9437-09-05 16:33 J	-1725192.92	-1725192.81	-1725192.71	0.2719	0.0496
Venus	-9434-05-14 19:26 J	-1724211.85	-1724211.69	-1724211.53	0.2646	0.0412
Mercury	-9433-03-05 22:47 J	-1723915.65	-1723915.55	-1723915.44	0.2614	0.1987
Mercury	-9424-09-08 10:04 J	-1720442.19	-1720442.08	-1720441.98	0.2719	0.0809
Mercury	-9420-03-09 07:12 J	-1719164.36	-1719164.20	-1719164.04	0.2614	0.0734

Mercury	-9411-09-11 03:35 J	-1715691.42	-1715691.35	-1715691.29	0.2719	0.2101
Mercury	-9404-09-04 03:50 J	-1713141.43	-1713141.34	-1713141.26	0.2719	0.1523
Mercury	-9391-09-06 21:21 J	-1708390.72	-1708390.61	-1708390.51	0.2719	0.0256
Mercury	-9387-03-07 05:45 J	-1707113.39	-1707113.26	-1707113.12	0.2615	0.1456
Mercury	-9378-09-09 14:52 J	-1703639.98	-1703639.88	-1703639.79	0.2719	0.1067
Mercury	-9374-03-10 14:09 J	-1702362.06	-1702361.91	-1702361.77	0.2614	0.1265
Mercury	-9371-09-02 15:07 J	-1701089.91	-1701089.87	-1701089.84	0.2719	0.2546
Mercury	-9365-09-11 08:24 J	-1698889.20	-1698889.15	-1698889.10	0.2719	0.2365
Mercury	-9358-09-05 08:38 J	-1696339.24	-1696339.14	-1696339.05	0.2719	0.1269
Mercury	-9345-09-07 01:55 J	-1691588.52	-1691588.42	-1691588.31	0.2719	0.0112
Mercury	-9341-03-07 12:43 J	-1690311.13	-1690310.97	-1690310.82	0.2614	0.0934
Mercury	-9332-09-09 19:26 J	-1686837.78	-1686837.69	-1686837.59	0.2719	0.1325
Mercury	-9328-03-10 20:52 J	-1685559.75	-1685559.63	-1685559.51	0.2615	0.1785
Mercury	-9325-09-02 19:55 J	-1684287.73	-1684287.67	-1684287.62	0.2719	0.2292
Mercury	-9319-09-12 13:12 J	-1682086.98	-1682086.95	-1682086.93	0.2719	0.2623
Mercury	-9312-09-05 13:12 J	-1679537.04	-1679536.95	-1679536.85	0.2719	0.1012
Mercury	-9299-09-08 06:43 J	-1674786.32	-1674786.22	-1674786.11	0.2719	0.0305
Mercury	-9295-03-08 19:26 J	-1673508.85	-1673508.69	-1673508.52	0.2614	0.0409
Mercury	-9286-09-11 00:14 J	-1670035.57	-1670035.49	-1670035.40	0.2719	0.1583
Mercury	-9282-03-12 03:50 J	-1668757.41	-1668757.34	-1668757.27	0.2615	0.2313
Venus	-9281-11-08 14:38 J	-1668150.04	-1668149.89	-1668149.73	0.2689	0.0553
Mercury	-9279-09-04 00:43 J	-1667485.54	-1667485.47	-1667485.40	0.2719	0.2039
Mercury	-9266-09-06 18:00 J	-1662734.85	-1662734.75	-1662734.64	0.2719	0.0756
Mercury	-9253-09-08 11:31 J	-1657984.12	-1657984.02	-1657983.91	0.2719	0.0552
Mercury	-9249-03-09 02:24 J	-1656706.56	-1656706.40	-1656706.24	0.2614	0.0117
Mercury	-9240-09-11 05:02 J	-1653233.36	-1653233.29	-1653233.21	0.2719	0.1842
Mercury	-9233-09-04 05:16 J	-1650683.36	-1650683.28	-1650683.20	0.2719	0.1787
Mercury	-9220-09-06 22:47 J	-1645932.65	-1645932.55	-1645932.44	0.2719	0.0501
Mercury	-9216-03-07 00:57 J	-1644655.56	-1644655.46	-1644655.37	0.2615	0.2094
Mercury	-9207-09-09 16:19 J	-1641181.92	-1641181.82	-1641181.71	0.2719	0.0804

Mercury	-9203-03-10 09:21 J	-1639904.27	-1639904.11	-1639903.95	0.2614	0.0651
Mercury	-9194-09-12 09:50 J	-1636431.15	-1636431.09	-1636431.02	0.2719	0.2103
Venus	-9191-05-14 19:55 J	-1635455.83	-1635455.67	-1635455.51	0.2644	0.0366
Mercury	-9187-09-05 10:04 J	-1633881.16	-1633881.08	-1633880.99	0.2719	0.1529
Mercury	-9174-09-08 03:35 J	-1629130.45	-1629130.35	-1629130.24	0.2719	0.0243
Mercury	-9170-03-08 07:40 J	-1627853.31	-1627853.18	-1627853.05	0.2614	0.1566
Mercury	-9161-09-09 21:07 J	-1624379.72	-1624379.62	-1624379.52	0.2719	0.1059
Mercury	-9157-03-10 16:04 J	-1623101.98	-1623101.83	-1623101.68	0.2614	0.1164
Mercury	-9154-09-03 21:21 J	-1621829.64	-1621829.61	-1621829.57	0.2719	0.2559
Mercury	-9148-09-12 14:38 J	-1619628.94	-1619628.89	-1619628.84	0.2719	0.2361
Mercury	-9141-09-05 14:52 J	-1617078.97	-1617078.88	-1617078.78	0.2719	0.1273
Mercury	-9128-09-08 08:24 J	-1612328.26	-1612328.15	-1612328.04	0.2719	0.0028
Mercury	-9124-03-08 14:38 J	-1611051.04	-1611050.89	-1611050.74	0.2615	0.1046
Mercury	-9115-09-11 01:55 J	-1607577.51	-1607577.42	-1607577.33	0.2719	0.1317
Mercury	-9111-03-11 23:02 J	-1606299.67	-1606299.54	-1606299.42	0.2614	0.1694
Mercury	-9108-09-04 02:09 J	-1605027.46	-1605027.41	-1605027.35	0.2719	0.2304
Mercury	-9102-09-13 19:26 J	-1602826.71	-1602826.69	-1602826.66	0.2719	0.2620
Mercury	-9095-09-06 19:40 J	-1600276.78	-1600276.68	-1600276.58	0.2719	0.1017
Mercury	-9082-09-09 13:12 J	-1595526.06	-1595525.95	-1595525.84	0.2719	0.0279
Mercury	-9078-03-09 21:21 J	-1594248.77	-1594248.61	-1594248.44	0.2614	0.0520
Mercury	-9069-09-11 06:43 J	-1590775.31	-1590775.22	-1590775.14	0.2719	0.1578
Mercury	-9065-03-12 05:45 J	-1589497.35	-1589497.26	-1589497.17	0.2614	0.2204
Mercury	-9062-09-05 06:57 J	-1588225.28	-1588225.21	-1588225.14	0.2719	0.2048
Mercury	-9049-09-07 00:28 J	-1583474.58	-1583474.48	-1583474.38	0.2719	0.0759
Venus	-9038-11-09 16:33 J	-1579393.97	-1579393.81	-1579393.66	0.2690	0.0500
Mercury	-9036-09-09 18:00 J	-1578723.86	-1578723.75	-1578723.65	0.2719	0.0538
Mercury	-9032-03-10 04:19 J	-1577446.48	-1577446.32	-1577446.15	0.2614	0.0068
Mercury	-9023-09-12 11:31 J	-1573973.10	-1573973.02	-1573972.95	0.2719	0.1837
Mercury	-9016-09-05 11:45 J	-1571423.09	-1571423.01	-1571422.93	0.2719	0.1790
Mercury	-9003-09-08 05:16 J	-1566672.39	-1566672.28	-1566672.18	0.2719	0.0501

9TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 9th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-8999-03-08 02:52 J		-1565395.47	-1565395.38	-1565395.29	0.2614	0.2199	
Mercury	-8990-09-10 22:47 J		-1561921.66	-1561921.55	-1561921.45	0.2719	0.0800	
Mercury	-8986-03-11 11:16 J		-1560644.19	-1560644.03	-1560643.87	0.2614	0.0542	
Mercury	-8977-09-12 16:19 J		-1557170.89	-1557170.82	-1557170.76	0.2719	0.2097	
Mercury	-8970-09-06 16:33 J		-1554620.90	-1554620.81	-1554620.72	0.2719	0.1534	
Mercury	-8957-09-08 10:04 J		-1549870.19	-1549870.08	-1549869.98	0.2719	0.0251	
Mercury	-8953-03-08 09:35 J		-1548593.22	-1548593.10	-1548592.97	0.2615	0.1681	
Venus	-8948-05-14 20:52 J		-1546699.79	-1546699.63	-1546699.46	0.2643	0.0262	
Mercury	-8944-09-11 03:35 J		-1545119.45	-1545119.35	-1545119.26	0.2719	0.1061	
Mercury	-8940-03-11 18:14 J		-1543841.89	-1543841.74	-1543841.59	0.2614	0.1076	
Mercury	-8937-09-04 03:50 J		-1542569.37	-1542569.34	-1542569.31	0.2719	0.2568	
Mercury	-8931-09-13 21:07 J		-1540368.67	-1540368.62	-1540368.57	0.2719	0.2360	
Mercury	-8924-09-06 21:21 J		-1537818.70	-1537818.61	-1537818.52	0.2719	0.1278	
Mercury	-8911-09-09 14:52 J		-1533067.99	-1533067.88	-1533067.78	0.2719	0.0104	
Mercury	-8907-03-09 16:33 J		-1531790.96	-1531790.81	-1531790.66	0.2614	0.1147	
Mercury	-8898-09-12 08:24 J		-1528317.25	-1528317.15	-1528317.06	0.2719	0.1322	
Mercury	-8894-03-13 00:57 J		-1527039.59	-1527039.46	-1527039.33	0.2614	0.1591	
Mercury	-8891-09-05 08:38 J		-1525767.19	-1525767.14	-1525767.09	0.2719	0.2311	
Mercury	-8885-09-14 01:55 J		-1523566.45	-1523566.42	-1523566.40	0.2719	0.2622	

Mercury	-8878-09-08 02:09 J	-1521016.51	-1521016.41	-1521016.31	0.2719	0.1025
Mercury	-8865-09-09 19:26 J	-1516265.79	-1516265.69	-1516265.58	0.2719	0.0300
Mercury	-8861-03-09 23:31 J	-1514988.68	-1514988.52	-1514988.36	0.2615	0.0615
Mercury	-8852-09-12 12:57 J	-1511515.04	-1511514.96	-1511514.87	0.2719	0.1580
Mercury	-8848-03-13 07:55 J	-1510237.27	-1510237.17	-1510237.08	0.2614	0.2127
Mercury	-8845-09-05 13:26 J	-1508965.01	-1508964.94	-1508964.87	0.2719	0.2058
Mercury	-8832-09-08 06:43 J	-1504214.32	-1504214.22	-1504214.11	0.2719	0.0772
Mercury	-8819-09-11 00:14 J	-1499463.59	-1499463.49	-1499463.38	0.2719	0.0537
Mercury	-8815-03-11 06:14 J	-1498186.40	-1498186.24	-1498186.07	0.2614	0.0095
Mercury	-8806-09-13 17:45 J	-1494712.83	-1494712.76	-1494712.68	0.2719	0.1839
Mercury	-8799-09-06 18:14 J	-1492162.82	-1492162.74	-1492162.66	0.2719	0.1801
Venus	-8795-11-09 18:00 J	-1490637.91	-1490637.75	-1490637.60	0.2692	0.0498
Mercury	-8786-09-09 11:31 J	-1487412.12	-1487412.02	-1487411.91	0.2719	0.0514
Mercury	-8782-03-09 04:33 J	-1486135.38	-1486135.31	-1486135.23	0.2615	0.2325
Mercury	-8773-09-11 05:02 J	-1482661.39	-1482661.29	-1482661.19	0.2719	0.0795
Mercury	-8769-03-11 13:12 J	-1481384.11	-1481383.95	-1481383.79	0.2615	0.0439
Mercury	-8760-09-13 22:33 J	-1477910.62	-1477910.56	-1477910.49	0.2719	0.2097
Mercury	-8753-09-06 23:02 J	-1475360.63	-1475360.54	-1475360.46	0.2719	0.1545
Mercury	-8740-09-09 16:19 J	-1470609.92	-1470609.82	-1470609.71	0.2719	0.0253
Mercury	-8736-03-09 11:31 J	-1469333.13	-1469333.02	-1469332.90	0.2615	0.1785
Mercury	-8727-09-12 09:50 J	-1465859.19	-1465859.09	-1465858.99	0.2719	0.1052
Mercury	-8723-03-12 19:55 J	-1464581.82	-1464581.67	-1464581.51	0.2615	0.0971
Mercury	-8720-09-05 10:19 J	-1463309.10	-1463309.07	-1463309.04	0.2719	0.2575
Mercury	-8714-09-15 03:21 J	-1461108.41	-1461108.36	-1461108.31	0.2719	0.2357
Mercury	-8707-09-08 03:35 J	-1458558.44	-1458558.35	-1458558.25	0.2719	0.1286
Venus	-8705-05-14 21:50 J	-1457943.75	-1457943.59	-1457943.43	0.2641	0.0171
Mercury	-8694-09-10 21:07 J	-1453807.73	-1453807.62	-1453807.51	0.2719	0.0052
Mercury	-8690-03-10 18:28 J	-1452530.87	-1452530.73	-1452530.58	0.2615	0.1250
Mercury	-8681-09-12 14:38 J	-1449056.98	-1449056.89	-1449056.80	0.2719	0.1314
Mercury	-8677-03-13 03:07 J	-1447779.51	-1447779.37	-1447779.24	0.2615	0.1511

Mercury	-8674-09-06 15:07 J	-1446506.93	-1446506.87	-1446506.82	0.2718	0.2323
Mercury	-8668-09-15 08:09 J	-1444306.19	-1444306.16	-1444306.13	0.2719	0.2617
Mercury	-8661-09-08 08:24 J	-1441756.25	-1441756.15	-1441756.05	0.2719	0.1027
Mercury	-8648-09-11 01:55 J	-1437005.53	-1437005.42	-1437005.31	0.2719	0.0273
Mercury	-8644-03-11 01:26 J	-1435728.60	-1435728.44	-1435728.28	0.2615	0.0719
Mercury	-8635-09-13 19:26 J	-1432254.78	-1432254.69	-1432254.60	0.2719	0.1575
Mercury	-8631-03-14 09:50 J	-1430977.19	-1430977.09	-1430976.99	0.2615	0.2035
Mercury	-8628-09-06 19:40 J	-1429704.74	-1429704.68	-1429704.61	0.2719	0.2063
Mercury	-8615-09-09 13:12 J	-1424954.05	-1424953.95	-1424953.85	0.2719	0.0770
Mercury	-8602-09-12 06:43 J	-1420203.32	-1420203.22	-1420203.11	0.2719	0.0532
Mercury	-8598-03-12 08:24 J	-1418926.32	-1418926.15	-1418925.99	0.2615	0.0200
Mercury	-8589-09-14 00:14 J	-1415452.57	-1415452.49	-1415452.41	0.2719	0.1836
Mercury	-8585-03-14 16:47 J	-1414174.83	-1414174.80	-1414174.77	0.2614	0.2569
Mercury	-8582-09-08 00:28 J	-1412902.56	-1412902.48	-1412902.40	0.2719	0.1807
Mercury	-8569-09-09 18:00 J	-1408151.85	-1408151.75	-1408151.64	0.2719	0.0509
Mercury	-8565-03-09 06:43 J	-1406875.28	-1406875.22	-1406875.16	0.2615	0.2428
Mercury	-8556-09-12 11:31 J	-1403401.12	-1403401.02	-1403400.92	0.2719	0.0792
Mercury	-8552-03-12 15:07 J	-1402124.03	-1402123.87	-1402123.70	0.2615	0.0347
Venus	-8552-11-09 19:26 J	-1401881.84	-1401881.69	-1401881.54	0.2694	0.0488
Mercury	-8543-09-15 05:02 J	-1398650.36	-1398650.29	-1398650.23	0.2719	0.2097
Mercury	-8536-09-08 05:16 J	-1396100.37	-1396100.28	-1396100.19	0.2719	0.1548
Mercury	-8523-09-10 22:47 J	-1391349.66	-1391349.55	-1391349.44	0.2719	0.0251
Mercury	-8519-03-10 13:26 J	-1390073.05	-1390072.94	-1390072.82	0.2615	0.1895
Mercury	-8510-09-13 16:19 J	-1386598.92	-1386598.82	-1386598.72	0.2719	0.1054
Mercury	-8506-03-13 22:04 J	-1385321.73	-1385321.58	-1385321.42	0.2615	0.0881
Mercury	-8503-09-06 16:33 J	-1384048.84	-1384048.81	-1384048.78	0.2718	0.2586
Mercury	-8497-09-15 09:50 J	-1381848.15	-1381848.09	-1381848.04	0.2719	0.2360
Mercury	-8490-09-09 10:04 J	-1379298.17	-1379298.08	-1379297.99	0.2719	0.1293
Mercury	-8477-09-11 03:35 J	-1374547.46	-1374547.35	-1374547.25	0.2719	0.0058
Mercury	-8473-03-10 20:24 J	-1373270.79	-1373270.65	-1373270.51	0.2615	0.1361

Mercury	-8464-09-13 20:52 J	-1369796.72	-1369796.63	-1369796.53	0.2719	0.1317
Venus	-8462-05-15 23:02 J	-1369187.70	-1369187.54	-1369187.38	0.2640	0.0065
Mercury	-8460-03-14 05:02 J	-1368519.43	-1368519.29	-1368519.16	0.2615	0.1409
Mercury	-8457-09-06 21:21 J	-1367246.66	-1367246.61	-1367246.56	0.2718	0.2325
Mercury	-8451-09-16 14:38 J	-1365045.92	-1365045.89	-1365045.87	0.2719	0.2623
Mercury	-8444-09-09 14:52 J	-1362495.98	-1362495.88	-1362495.78	0.2719	0.1031
Mercury	-8431-09-12 08:24 J	-1357745.26	-1357745.15	-1357745.05	0.2719	0.0279
Mercury	-8427-03-12 03:21 J	-1356468.52	-1356468.36	-1356468.20	0.2615	0.0824
Mercury	-8418-09-15 01:40 J	-1352994.51	-1352994.43	-1352994.34	0.2719	0.1574
Mercury	-8414-03-15 12:00 J	-1351717.11	-1351717.00	-1351716.90	0.2615	0.1946
Mercury	-8411-09-08 02:09 J	-1350444.48	-1350444.41	-1350444.34	0.2718	0.2067
Mercury	-8398-09-10 19:40 J	-1345693.78	-1345693.68	-1345693.58	0.2719	0.0771
Mercury	-8385-09-12 13:12 J	-1340943.06	-1340942.95	-1340942.85	0.2719	0.0543
Mercury	-8381-03-12 10:19 J	-1339666.23	-1339666.07	-1339665.91	0.2615	0.0285
Mercury	-8372-09-15 06:28 J	-1336192.30	-1336192.23	-1336192.15	0.2719	0.1833
Mercury	-8368-03-15 18:43 J	-1334914.77	-1334914.72	-1334914.67	0.2615	0.2473
Mercury	-8365-09-08 06:57 J	-1333642.29	-1333642.21	-1333642.13	0.2718	0.1810
Mercury	-8352-09-11 00:28 J	-1328891.59	-1328891.48	-1328891.38	0.2719	0.0516
Mercury	-8348-03-10 08:38 J	-1327615.18	-1327615.14	-1327615.10	0.2615	0.2533
Mercury	-8339-09-13 17:45 J	-1324140.86	-1324140.76	-1324140.65	0.2719	0.0798
Mercury	-8335-03-13 17:16 J	-1322863.95	-1322863.78	-1322863.62	0.2615	0.0257
Mercury	-8326-09-16 11:16 J	-1319390.09	-1319390.03	-1319389.96	0.2719	0.2099
Mercury	-8319-09-09 11:45 J	-1316840.10	-1316840.01	-1316839.92	0.2718	0.1554
Venus	-8309-11-09 20:38 J	-1313125.79	-1313125.64	-1313125.48	0.2695	0.0498
Mercury	-8306-09-12 05:16 J	-1312089.39	-1312089.28	-1312089.18	0.2719	0.0277
Mercury	-8302-03-11 15:35 J	-1310812.96	-1310812.85	-1310812.75	0.2615	0.1996
Mercury	-8293-09-13 22:33 J	-1307338.66	-1307338.56	-1307338.46	0.2719	0.1052
Mercury	-8289-03-14 00:00 J	-1306061.66	-1306061.50	-1306061.34	0.2615	0.0782
Mercury	-8286-09-07 23:02 J	-1304788.57	-1304788.54	-1304788.51	0.2718	0.2590
Mercury	-8280-09-16 16:04 J	-1302587.88	-1302587.83	-1302587.78	0.2719	0.2361

Mercury	-8273-09-09 16:33 J	-1300037.91	-1300037.81	-1300037.72	0.2718	0.1294
Mercury	-8260-09-12 09:50 J	-1295287.19	-1295287.09	-1295286.98	0.2718	0.0083
Mercury	-8256-03-11 22:19 J	-1294010.70	-1294010.57	-1294010.43	0.2615	0.1464
Mercury	-8247-09-15 03:21 J	-1290536.45	-1290536.36	-1290536.27	0.2719	0.1312
Mercury	-8243-03-15 06:57 J	-1289259.35	-1289259.21	-1289259.07	0.2615	0.1318
Mercury	-8240-09-08 03:50 J	-1287986.39	-1287986.34	-1287986.29	0.2718	0.2332
Mercury	-8234-09-17 20:52 J	-1285785.65	-1285785.63	-1285785.60	0.2719	0.2622
Mercury	-8227-09-10 21:21 J	-1283235.71	-1283235.61	-1283235.52	0.2718	0.1040
Venus	-8219-05-16 00:14 J	-1280431.65	-1280431.49	-1280431.33	0.2638	0.0063
Mercury	-8214-09-13 14:38 J	-1278484.99	-1278484.89	-1278484.78	0.2719	0.0271
Mercury	-8210-03-13 05:16 J	-1277208.43	-1277208.28	-1277208.13	0.2615	0.0930
Mercury	-8201-09-15 08:09 J	-1273734.25	-1273734.16	-1273734.07	0.2719	0.1573
Mercury	-8197-03-15 13:40 J	-1272457.04	-1272456.93	-1272456.81	0.2615	0.1847
Mercury	-8194-09-09 08:38 J	-1271184.21	-1271184.14	-1271184.08	0.2718	0.2078
Mercury	-8181-09-11 01:55 J	-1266433.52	-1266433.42	-1266433.31	0.2718	0.0780
Mercury	-8168-09-13 19:26 J	-1261682.79	-1261682.69	-1261682.58	0.2718	0.0528
Mercury	-8164-03-13 12:14 J	-1260406.15	-1260405.99	-1260405.83	0.2615	0.0390
Mercury	-8155-09-16 12:57 J	-1256932.04	-1256931.96	-1256931.88	0.2719	0.1837
Mercury	-8151-03-16 20:38 J	-1255654.70	-1255654.64	-1255654.57	0.2615	0.2382
Mercury	-8148-09-09 13:26 J	-1254382.02	-1254381.94	-1254381.87	0.2718	0.1819
Mercury	-8135-09-12 06:43 J	-1249631.32	-1249631.22	-1249631.11	0.2718	0.0520
Mercury	-8122-09-15 00:14 J	-1244880.59	-1244880.49	-1244880.39	0.2718	0.0788
Mercury	-8118-03-14 18:57 J	-1243603.87	-1243603.71	-1243603.54	0.2615	0.0149
Mercury	-8109-09-16 17:45 J	-1240129.83	-1240129.76	-1240129.70	0.2718	0.2097
Mercury	-8102-09-10 18:00 J	-1237579.83	-1237579.75	-1237579.66	0.2718	0.1559
Mercury	-8089-09-12 11:31 J	-1232829.13	-1232829.02	-1232828.91	0.2718	0.0256
Mercury	-8085-03-11 17:16 J	-1231552.87	-1231552.78	-1231552.68	0.2615	0.2109
Mercury	-8076-09-15 05:02 J	-1228078.39	-1228078.29	-1228078.19	0.2719	0.1048
Mercury	-8072-03-15 01:55 J	-1226801.58	-1226801.42	-1226801.26	0.2615	0.0688
Mercury	-8069-09-08 05:31 J	-1225528.30	-1225528.27	-1225528.24	0.2718	0.2595

Venus	-8066-11-10 21:50 J	-1224369.74	-1224369.59	-1224369.43	0.2696	0.0522
Mercury	-8063-09-17 22:33 J	-1223327.61	-1223327.56	-1223327.51	0.2719	0.2360
Mercury	-8056-09-10 22:47 J	-1220777.64	-1220777.55	-1220777.45	0.2718	0.1299
Mercury	-8043-09-13 16:19 J	-1216026.93	-1216026.82	-1216026.71	0.2718	0.0012
Mercury	-8039-03-13 00:14 J	-1214750.62	-1214750.49	-1214750.36	0.2615	0.1569
Mercury	-8030-09-16 09:50 J	-1211276.19	-1211276.09	-1211276.00	0.2719	0.1315
Mercury	-8026-03-16 08:52 J	-1209999.28	-1209999.13	-1209998.99	0.2615	0.1220
Mercury	-8023-09-09 10:04 J	-1208726.13	-1208726.08	-1208726.02	0.2718	0.2343
Mercury	-8017-09-18 03:21 J	-1206525.39	-1206525.36	-1206525.34	0.2719	0.2622
Mercury	-8010-09-12 03:35 J	-1203975.45	-1203975.35	-1203975.25	0.2718	0.1038

8TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 8th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-7997-09-13 21:07 J	-1199224.73	-1199224.62	-1199224.51	0.2718	0.0268		
Mercury	-7993-03-13 07:12 J	-1197948.35	-1197948.20	-1197948.05	0.2615	0.1028		
Mercury	-7984-09-16 14:38 J	-1194473.98	-1194473.89	-1194473.81	0.2719	0.1578		
Mercury	-7980-03-16 15:50 J	-1193196.96	-1193196.84	-1193196.72	0.2615	0.1762		
Mercury	-7977-09-09 14:52 J	-1191923.94	-1191923.88	-1191923.81	0.2718	0.2081		
Venus	-7976-05-16 01:26 J	-1191675.60	-1191675.44	-1191675.28	0.2637	0.0166		
Mercury	-7964-09-12 08:24 J	-1187173.25	-1187173.15	-1187173.05	0.2718	0.0780		
Mercury	-7951-09-15 01:55 J	-1182422.53	-1182422.42	-1182422.32	0.2718	0.0531		
Mercury	-7947-03-14 14:09 J	-1181146.08	-1181145.91	-1181145.75	0.2615	0.0498		

Mercury	-7938-09-17 19:12 J	-1177671.77	-1177671.70	-1177671.62	0.2718	0.1841
Mercury	-7934-03-17 22:33 J	-1176394.63	-1176394.56	-1176394.48	0.2615	0.2295
Mercury	-7931-09-10 19:40 J	-1175121.76	-1175121.68	-1175121.60	0.2718	0.1821
Mercury	-7918-09-13 13:12 J	-1170371.06	-1170370.95	-1170370.85	0.2718	0.0517
Mercury	-7905-09-15 06:43 J	-1165620.33	-1165620.22	-1165620.12	0.2718	0.0792
Mercury	-7901-03-14 20:52 J	-1164343.79	-1164343.63	-1164343.46	0.2615	0.0072
Mercury	-7892-09-18 00:00 J	-1160869.56	-1160869.50	-1160869.43	0.2718	0.2100
Mercury	-7885-09-11 00:28 J	-1158319.57	-1158319.48	-1158319.39	0.2718	0.1562
Mercury	-7872-09-13 18:00 J	-1153568.86	-1153568.75	-1153568.65	0.2718	0.0265
Mercury	-7868-03-12 19:12 J	-1152292.78	-1152292.70	-1152292.61	0.2615	0.2217
Mercury	-7859-09-16 11:16 J	-1148818.12	-1148818.03	-1148817.93	0.2718	0.1058
Mercury	-7855-03-16 03:50 J	-1147541.50	-1147541.34	-1147541.18	0.2615	0.0579
Mercury	-7852-09-09 11:45 J	-1146268.03	-1146268.01	-1146267.98	0.2718	0.2603
Mercury	-7846-09-19 04:47 J	-1144067.35	-1144067.30	-1144067.25	0.2718	0.2360
Mercury	-7839-09-12 05:16 J	-1141517.37	-1141517.28	-1141517.19	0.2718	0.1304
Mercury	-7826-09-14 22:47 J	-1136766.66	-1136766.55	-1136766.45	0.2718	0.0090
Venus	-7823-11-10 22:47 J	-1135613.70	-1135613.55	-1135613.39	0.2698	0.0567
Mercury	-7822-03-14 02:09 J	-1135490.54	-1135490.41	-1135490.28	0.2615	0.1677
Mercury	-7813-09-16 16:04 J	-1132015.92	-1132015.83	-1132015.73	0.2718	0.1313
Mercury	-7809-03-16 10:47 J	-1130739.20	-1130739.05	-1130738.90	0.2615	0.1130
Mercury	-7806-09-10 16:33 J	-1129465.86	-1129465.81	-1129465.76	0.2718	0.2343
Mercury	-7800-09-19 09:35 J	-1127265.12	-1127265.10	-1127265.08	0.2718	0.2626
Mercury	-7793-09-12 10:04 J	-1124715.18	-1124715.08	-1124714.98	0.2718	0.1041
Mercury	-7780-09-15 03:21 J	-1119964.46	-1119964.36	-1119964.25	0.2718	0.0287
Mercury	-7776-03-14 09:07 J	-1118688.27	-1118688.12	-1118687.97	0.2615	0.1131
Mercury	-7767-09-17 20:52 J	-1115213.72	-1115213.63	-1115213.54	0.2718	0.1573
Mercury	-7763-03-17 17:45 J	-1113936.89	-1113936.76	-1113936.64	0.2615	0.1664
Mercury	-7760-09-10 21:21 J	-1112663.68	-1112663.61	-1112663.54	0.2718	0.2083
Mercury	-7747-09-13 14:52 J	-1107912.98	-1107912.88	-1107912.78	0.2718	0.0781
Mercury	-7734-09-16 08:09 J	-1103162.26	-1103162.16	-1103162.05	0.2718	0.0533

Venus	-7733-05-16 02:52 J	-1102919.54	-1102919.38	-1102919.22	0.2635	0.0314
Mercury	-7730-03-15 16:04 J	-1101885.99	-1101885.83	-1101885.67	0.2615	0.0595
Mercury	-7721-09-18 01:40 J	-1098411.51	-1098411.43	-1098411.35	0.2719	0.1836
Mercury	-7717-03-18 00:43 J	-1097134.56	-1097134.47	-1097134.39	0.2615	0.2213
Mercury	-7714-09-12 02:09 J	-1095861.49	-1095861.41	-1095861.33	0.2718	0.1823
Mercury	-7701-09-13 19:40 J	-1091110.79	-1091110.68	-1091110.58	0.2718	0.0527
Mercury	-7688-09-16 12:57 J	-1086360.06	-1086359.96	-1086359.86	0.2718	0.0792
Mercury	-7684-03-15 22:47 J	-1085083.71	-1085083.55	-1085083.38	0.2615	0.0090
Mercury	-7675-09-19 06:28 J	-1081609.30	-1081609.23	-1081609.17	0.2718	0.2102
Mercury	-7668-09-12 06:57 J	-1079059.30	-1079059.21	-1079059.13	0.2718	0.1567
Mercury	-7655-09-15 00:14 J	-1074308.59	-1074308.49	-1074308.38	0.2718	0.0274
Mercury	-7651-03-13 21:07 J	-1073032.69	-1073032.62	-1073032.55	0.2615	0.2326
Mercury	-7642-09-17 17:45 J	-1069557.86	-1069557.76	-1069557.66	0.2718	0.1052
Mercury	-7638-03-17 05:45 J	-1068281.42	-1068281.26	-1068281.09	0.2615	0.0502
Mercury	-7635-09-10 18:14 J	-1067007.77	-1067007.74	-1067007.71	0.2717	0.2609
Mercury	-7629-09-19 11:16 J	-1064807.08	-1064807.03	-1064806.98	0.2718	0.2366
Mercury	-7622-09-13 11:45 J	-1062257.11	-1062257.01	-1062256.92	0.2718	0.1307
Mercury	-7609-09-15 05:02 J	-1057506.40	-1057506.29	-1057506.18	0.2718	0.0037
Mercury	-7605-03-14 04:04 J	-1056230.45	-1056230.33	-1056230.21	0.2615	0.1778
Mercury	-7596-09-17 22:33 J	-1052755.66	-1052755.56	-1052755.47	0.2718	0.1313
Mercury	-7592-03-17 12:43 J	-1051479.12	-1051478.97	-1051478.82	0.2615	0.1028
Mercury	-7589-09-10 23:02 J	-1050205.59	-1050205.54	-1050205.49	0.2718	0.2349
Mercury	-7583-09-20 16:04 J	-1048004.86	-1048004.83	-1048004.81	0.2718	0.2628
Venus	-7580-11-10 23:45 J	-1046857.66	-1046857.51	-1046857.36	0.2699	0.0612
Mercury	-7576-09-13 16:19 J	-1045454.91	-1045454.82	-1045454.72	0.2718	0.1049
Mercury	-7563-09-16 09:50 J	-1040704.20	-1040704.09	-1040703.98	0.2718	0.0265
Mercury	-7559-03-15 10:47 J	-1039428.19	-1039428.05	-1039427.90	0.2615	0.1249
Mercury	-7550-09-19 03:21 J	-1035953.45	-1035953.36	-1035953.28	0.2718	0.1577
Mercury	-7546-03-18 19:40 J	-1034676.81	-1034676.68	-1034676.55	0.2615	0.1573
Mercury	-7543-09-12 03:50 J	-1033403.41	-1033403.34	-1033403.28	0.2718	0.2089

Mercury	-7530-09-14 21:07 J	-1028652.72	-1028652.62	-1028652.51	0.2718	0.0786
Mercury	-7517-09-16 14:38 J	-1023902.00	-1023901.89	-1023901.79	0.2718	0.0528
Mercury	-7513-03-15 17:45 J	-1022625.91	-1022625.76	-1022625.60	0.2615	0.0699
Mercury	-7504-09-19 08:09 J	-1019151.24	-1019151.16	-1019151.09	0.2718	0.1843
Mercury	-7500-03-19 02:23 J	-1017874.50	-1017874.40	-1017874.30	0.2615	0.2103
Mercury	-7497-09-12 08:38 J	-1016601.22	-1016601.14	-1016601.07	0.2718	0.1830
Venus	-7490-05-17 04:19 J	-1014163.48	-1014163.32	-1014163.16	0.2634	0.0436
Mercury	-7484-09-15 01:55 J	-1011850.52	-1011850.42	-1011850.31	0.2718	0.0522
Mercury	-7471-09-17 19:26 J	-1007099.79	-1007099.69	-1007099.59	0.2718	0.0792
Mercury	-7467-03-17 00:57 J	-1005823.63	-1005823.46	-1005823.30	0.2615	0.0163
Mercury	-7458-09-20 12:43 J	-1002349.03	-1002348.97	-1002348.90	0.2718	0.2105
Mercury	-7451-09-13 13:12 J	-999799.03	-999798.95	-999798.86	0.2718	0.1570
Mercury	-7438-09-16 06:43 J	-995048.33	-995048.22	-995048.11	0.2718	0.0259
Mercury	-7434-03-14 23:02 J	-993772.60	-993772.54	-993772.48	0.2616	0.2423
Mercury	-7425-09-18 00:14 J	-990297.59	-990297.49	-990297.40	0.2718	0.1057
Mercury	-7421-03-17 07:40 J	-989021.34	-989021.18	-989021.02	0.2615	0.0393
Mercury	-7418-09-12 00:43 J	-987747.50	-987747.47	-987747.45	0.2717	0.2611
Mercury	-7412-09-20 17:31 J	-985546.82	-985546.77	-985546.72	0.2718	0.2368
Mercury	-7405-09-13 18:00 J	-982996.84	-982996.75	-982996.65	0.2718	0.1306
Mercury	-7392-09-16 11:31 J	-978246.13	-978246.02	-978245.92	0.2718	0.0051
Mercury	-7388-03-15 06:00 J	-976970.37	-976970.25	-976970.14	0.2616	0.1891
Mercury	-7379-09-19 05:02 J	-973495.39	-973495.29	-973495.20	0.2718	0.1322
Mercury	-7375-03-18 14:38 J	-972219.05	-972218.89	-972218.74	0.2615	0.0935
Mercury	-7372-09-12 05:31 J	-970945.33	-970945.27	-970945.22	0.2717	0.2354
Mercury	-7366-09-21 22:19 J	-968744.59	-968744.57	-968744.54	0.2718	0.2631
Mercury	-7359-09-14 22:47 J	-966194.65	-966194.55	-966194.45	0.2718	0.1045
Mercury	-7346-09-17 16:19 J	-961443.93	-961443.82	-961443.72	0.2718	0.0278
Mercury	-7342-03-16 12:57 J	-960168.11	-960167.96	-960167.82	0.2615	0.1341
Venus	-7337-11-11 00:28 J	-958101.63	-958101.48	-958101.33	0.2700	0.0691
Mercury	-7333-09-19 09:36 J	-956693.18	-956693.10	-956693.01	0.2718	0.1584

Mercury	-7329-03-18 21:21 J	-955416.74	-955416.61	-955416.47	0.2615	0.1474
Mercury	-7326-09-13 10:04 J	-954143.14	-954143.08	-954143.01	0.2717	0.2092
Mercury	-7313-09-15 03:36 J	-949392.45	-949392.35	-949392.25	0.2718	0.0786
Mercury	-7300-09-17 21:07 J	-944641.73	-944641.62	-944641.52	0.2718	0.0539
Mercury	-7296-03-16 19:40 J	-943365.83	-943365.68	-943365.52	0.2616	0.0801
Mercury	-7287-09-20 14:23 J	-939890.97	-939890.90	-939890.82	0.2718	0.1844
Mercury	-7283-03-20 04:19 J	-938614.42	-938614.32	-938614.21	0.2615	0.2026
Mercury	-7280-09-13 14:52 J	-937340.96	-937340.88	-937340.80	0.2717	0.1834
Mercury	-7267-09-16 08:23 J	-932590.26	-932590.15	-932590.05	0.2718	0.0526
Mercury	-7254-09-19 01:40 J	-927839.53	-927839.43	-927839.32	0.2718	0.0797
Mercury	-7250-03-18 02:38 J	-926563.56	-926563.39	-926563.23	0.2615	0.0258
Venus	-7247-05-17 06:00 J	-925407.41	-925407.25	-925407.09	0.2633	0.0570
Mercury	-7241-09-20 19:12 J	-923088.77	-923088.70	-923088.63	0.2718	0.2106
Mercury	-7237-03-20 11:16 J	-921812.06	-921812.03	-921812.00	0.2615	0.2558
Mercury	-7234-09-14 19:40 J	-920538.77	-920538.68	-920538.59	0.2717	0.1568
Mercury	-7221-09-16 13:12 J	-915788.06	-915787.95	-915787.85	0.2718	0.0276
Mercury	-7217-03-15 00:43 J	-914512.50	-914512.47	-914512.43	0.2616	0.2543
Mercury	-7208-09-19 06:28 J	-911037.33	-911037.23	-911037.13	0.2718	0.1055
Mercury	-7204-03-18 09:36 J	-909761.27	-909761.10	-909760.94	0.2616	0.0290
Mercury	-7201-09-12 06:57 J	-908487.23	-908487.21	-908487.18	0.2717	0.2614
Mercury	-7195-09-22 00:00 J	-906286.55	-906286.50	-906286.45	0.2718	0.2371
Mercury	-7188-09-15 00:28 J	-903736.57	-903736.48	-903736.39	0.2717	0.1306
Mercury	-7175-09-17 18:00 J	-898985.86	-898985.75	-898985.65	0.2718	0.0112
Mercury	-7171-03-16 07:55 J	-897710.28	-897710.17	-897710.07	0.2616	0.1989
Mercury	-7162-09-20 11:16 J	-894235.12	-894235.03	-894234.94	0.2718	0.1318
Mercury	-7158-03-19 16:33 J	-892958.97	-892958.81	-892958.66	0.2615	0.0839
Mercury	-7155-09-13 11:45 J	-891685.06	-891685.01	-891684.96	0.2717	0.2354
Mercury	-7149-09-22 04:47 J	-889484.33	-889484.30	-889484.28	0.2718	0.2635
Mercury	-7142-09-16 05:16 J	-886934.38	-886934.28	-886934.18	0.2717	0.1045
Mercury	-7129-09-17 22:33 J	-882183.66	-882183.56	-882183.45	0.2718	0.0285

Mercury	-7125-03-16 14:38 J	-880908.02	-880907.89	-880907.75	0.2616	0.1445
Mercury	-7116-09-20 16:04 J	-877432.92	-877432.83	-877432.74	0.2718	0.1584
Mercury	-7112-03-19 23:31 J	-876156.66	-876156.52	-876156.38	0.2615	0.1392
Mercury	-7109-09-13 16:33 J	-874882.88	-874882.81	-874882.74	0.2717	0.2093
Mercury	-7096-09-16 10:04 J	-870132.19	-870132.08	-870131.98	0.2717	0.0786
Venus	-7094-11-12 01:12 J	-869345.60	-869345.45	-869345.30	0.2702	0.0762
Mercury	-7083-09-19 03:21 J	-865381.46	-865381.36	-865381.25	0.2718	0.0535
Mercury	-7079-03-17 21:36 J	-864105.75	-864105.60	-864105.44	0.2616	0.0897
Mercury	-7070-09-21 20:52 J	-860630.71	-860630.63	-860630.56	0.2718	0.1849
Mercury	-7066-03-21 06:14 J	-859354.35	-859354.24	-859354.13	0.2615	0.1930
Mercury	-7063-09-14 21:21 J	-858080.69	-858080.61	-858080.53	0.2717	0.1830
Mercury	-7050-09-17 14:52 J	-853329.99	-853329.88	-853329.78	0.2717	0.0531
Mercury	-7037-09-19 08:09 J	-848579.26	-848579.16	-848579.06	0.2718	0.0794
Mercury	-7033-03-18 04:33 J	-847303.48	-847303.31	-847303.15	0.2616	0.0356
Mercury	-7024-09-22 01:40 J	-843828.50	-843828.43	-843828.37	0.2718	0.2115
Mercury	-7020-03-21 13:12 J	-842552.00	-842551.95	-842551.90	0.2615	0.2480
Mercury	-7017-09-15 02:09 J	-841278.50	-841278.41	-841278.33	0.2717	0.1569
Venus	-7004-05-17 07:55 J	-836651.33	-836651.17	-836651.02	0.2632	0.0734
Mercury	-7004-09-17 19:26 J	-836527.79	-836527.69	-836527.58	0.2717	0.0268

7TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 7th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
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Mercury	-6991-09-20 12:57 J	-831777.06	-831776.96	-831776.86	0.2718	0.1061
Mercury	-6987-03-19 11:31 J	-830501.19	-830501.02	-830500.86	0.2616	0.0200
Mercury	-6984-09-13 13:26 J	-829226.96	-829226.94	-829226.92	0.2717	0.2620
Mercury	-6978-09-23 06:14 J	-827026.28	-827026.24	-827026.19	0.2718	0.2379
Mercury	-6971-09-16 06:57 J	-824476.31	-824476.21	-824476.12	0.2717	0.1311
Mercury	-6958-09-19 00:14 J	-819725.60	-819725.49	-819725.38	0.2717	0.0018
Mercury	-6954-03-17 09:36 J	-818450.20	-818450.10	-818450.00	0.2616	0.2100
Mercury	-6945-09-20 17:45 J	-814974.86	-814974.76	-814974.67	0.2718	0.1327
Mercury	-6941-03-19 18:28 J	-813698.89	-813698.73	-813698.58	0.2616	0.0748
Mercury	-6938-09-14 18:14 J	-812424.79	-812424.74	-812424.69	0.2717	0.2354
Mercury	-6932-09-23 11:02 J	-810224.06	-810224.04	-810224.01	0.2718	0.2643
Mercury	-6925-09-16 11:31 J	-807674.11	-807674.02	-807673.92	0.2717	0.1052
Mercury	-6912-09-19 05:02 J	-802923.40	-802923.29	-802923.18	0.2717	0.0272
Mercury	-6908-03-17 16:33 J	-801647.94	-801647.81	-801647.68	0.2616	0.1547
Mercury	-6899-09-21 22:19 J	-798172.65	-798172.57	-798172.48	0.2718	0.1590
Mercury	-6895-03-21 01:12 J	-796896.59	-796896.45	-796896.31	0.2616	0.1288
Mercury	-6892-09-14 23:02 J	-795622.61	-795622.54	-795622.48	0.2717	0.2092
Mercury	-6879-09-17 16:19 J	-790871.92	-790871.82	-790871.71	0.2717	0.0781
Mercury	-6866-09-20 09:50 J	-786121.20	-786121.09	-786120.99	0.2717	0.0536
Mercury	-6862-03-18 23:31 J	-784845.67	-784845.52	-784845.37	0.2616	0.0999
Mercury	-6853-09-22 03:07 J	-781370.44	-781370.37	-781370.29	0.2718	0.1852
Venus	-6851-11-12 01:40 J	-780589.58	-780589.43	-780589.28	0.2703	0.0853
Mercury	-6849-03-21 08:09 J	-780094.27	-780094.16	-780094.04	0.2616	0.1841
Mercury	-6846-09-16 03:50 J	-778820.42	-778820.34	-778820.27	0.2717	0.1829
Mercury	-6833-09-17 21:07 J	-774069.72	-774069.62	-774069.51	0.2717	0.0516
Mercury	-6820-09-20 14:38 J	-769319.00	-769318.89	-769318.79	0.2718	0.0807
Mercury	-6816-03-19 06:28 J	-768043.39	-768043.23	-768043.07	0.2616	0.0446
Mercury	-6807-09-23 07:55 J	-764568.23	-764568.17	-764568.10	0.2718	0.2118
Mercury	-6803-03-22 15:07 J	-763291.94	-763291.87	-763291.81	0.2616	0.2389
Mercury	-6800-09-16 08:23 J	-762018.23	-762018.15	-762018.06	0.2717	0.1571

Mercury	-6787-09-19 01:55 J	-757267.53	-757267.42	-757267.31	0.2717	0.0253
Mercury	-6774-09-21 19:26 J	-752516.79	-752516.69	-752516.60	0.2718	0.1071
Mercury	-6770-03-20 13:26 J	-751241.11	-751240.94	-751240.78	0.2616	0.0114
Mercury	-6767-09-14 19:55 J	-749966.70	-749966.67	-749966.65	0.2716	0.2616
Venus	-6761-05-17 09:36 J	-747895.25	-747895.10	-747894.95	0.2631	0.0876
Mercury	-6761-09-23 12:43 J	-747766.02	-747765.97	-747765.92	0.2718	0.2385
Mercury	-6754-09-17 13:12 J	-745216.04	-745215.95	-745215.85	0.2717	0.1307
Venus	-6753-05-15 01:26 J	-744975.49	-744975.44	-744975.39	0.2629	0.2496
Mercury	-6741-09-19 06:43 J	-740465.33	-740465.22	-740465.12	0.2717	0.0059
Mercury	-6737-03-17 11:31 J	-739190.11	-739190.02	-739189.93	0.2616	0.2193
Mercury	-6728-09-22 00:00 J	-735714.59	-735714.50	-735714.40	0.2718	0.1332
Mercury	-6724-03-20 20:09 J	-734438.82	-734438.66	-734438.50	0.2616	0.0653
Mercury	-6721-09-15 00:43 J	-733164.52	-733164.47	-733164.42	0.2716	0.2356
Mercury	-6715-09-24 17:31 J	-730963.79	-730963.77	-730963.75	0.2718	0.2649
Mercury	-6708-09-17 18:00 J	-728413.85	-728413.75	-728413.65	0.2717	0.1039
Mercury	-6695-09-20 11:31 J	-723663.13	-723663.02	-723662.92	0.2717	0.0291
Mercury	-6691-03-18 18:28 J	-722387.86	-722387.73	-722387.61	0.2616	0.1651
Mercury	-6682-09-23 04:47 J	-718912.38	-718912.30	-718912.21	0.2718	0.1594
Mercury	-6678-03-22 03:07 J	-717636.51	-717636.37	-717636.22	0.2616	0.1203
Mercury	-6675-09-16 05:16 J	-716362.34	-716362.28	-716362.21	0.2716	0.2095
Mercury	-6662-09-18 22:47 J	-711611.65	-711611.55	-711611.45	0.2717	0.0778
Mercury	-6649-09-20 16:04 J	-706860.93	-706860.83	-706860.72	0.2717	0.0553
Mercury	-6645-03-19 01:26 J	-705585.59	-705585.44	-705585.29	0.2616	0.1100
Mercury	-6636-09-23 09:36 J	-702110.18	-702110.10	-702110.02	0.2718	0.1860
Mercury	-6632-03-22 10:04 J	-700834.20	-700834.08	-700833.96	0.2616	0.1747
Mercury	-6629-09-16 10:04 J	-699560.16	-699560.08	-699560.00	0.2717	0.1832
Mercury	-6616-09-19 03:36 J	-694809.46	-694809.35	-694809.25	0.2717	0.0522
Venus	-6608-11-12 02:09 J	-691833.56	-691833.41	-691833.26	0.2704	0.0957
Mercury	-6603-09-21 20:52 J	-690058.73	-690058.63	-690058.52	0.2717	0.0808
Mercury	-6599-03-20 08:09 J	-688783.32	-688783.16	-688782.99	0.2616	0.0550

Mercury	-6590-09-24 14:23 J	-685307.97	-685307.90	-685307.84	0.2718	0.2125
Mercury	-6586-03-23 17:02 J	-684031.87	-684031.79	-684031.72	0.2616	0.2301
Mercury	-6583-09-17 14:52 J	-682757.97	-682757.88	-682757.79	0.2717	0.1565
Mercury	-6570-09-20 08:23 J	-678007.26	-678007.15	-678007.05	0.2717	0.0265
Mercury	-6557-09-22 01:40 J	-673256.53	-673256.43	-673256.33	0.2717	0.1069
Mercury	-6553-03-20 15:07 J	-671981.03	-671980.87	-671980.70	0.2616	0.0053
Mercury	-6550-09-16 02:09 J	-670706.43	-670706.41	-670706.38	0.2716	0.2617
Mercury	-6544-09-24 19:12 J	-668505.75	-668505.70	-668505.66	0.2718	0.2389
Mercury	-6537-09-17 19:40 J	-665955.77	-665955.68	-665955.59	0.2717	0.1300
Mercury	-6524-09-20 13:12 J	-661205.06	-661204.95	-661204.85	0.2717	0.0114
Mercury	-6520-03-18 13:26 J	-659930.02	-659929.94	-659929.87	0.2617	0.2298
Venus	-6518-05-18 11:45 J	-659139.15	-659139.01	-659138.86	0.2629	0.1065
Mercury	-6511-09-23 06:28 J	-656454.32	-656454.23	-656454.14	0.2717	0.1333
Venus	-6510-05-16 03:21 J	-656219.43	-656219.36	-656219.29	0.2628	0.2332
Mercury	-6507-03-21 22:04 J	-655178.74	-655178.58	-655178.42	0.2616	0.0560
Mercury	-6504-09-16 06:57 J	-653904.26	-653904.21	-653904.16	0.2716	0.2354
Mercury	-6498-09-25 23:45 J	-651703.52	-651703.51	-651703.49	0.2718	0.2657
Mercury	-6491-09-19 00:28 J	-649153.58	-649153.48	-649153.38	0.2717	0.1036
Mercury	-6478-09-21 17:45 J	-644402.86	-644402.76	-644402.65	0.2717	0.0301
Mercury	-6474-03-19 20:23 J	-643127.77	-643127.65	-643127.53	0.2617	0.1741
Mercury	-6465-09-23 11:16 J	-639652.12	-639652.03	-639651.95	0.2717	0.1605
Mercury	-6461-03-22 05:02 J	-638376.44	-638376.29	-638376.14	0.2616	0.1108
Mercury	-6458-09-17 11:45 J	-637102.08	-637102.01	-637101.94	0.2716	0.2091
Mercury	-6445-09-19 05:16 J	-632351.39	-632351.28	-632351.18	0.2717	0.0779
Mercury	-6432-09-21 22:33 J	-627600.66	-627600.56	-627600.45	0.2717	0.0550
Mercury	-6428-03-20 03:07 J	-626325.51	-626325.37	-626325.22	0.2617	0.1197
Mercury	-6419-09-24 16:04 J	-622849.91	-622849.83	-622849.76	0.2717	0.1869
Mercury	-6415-03-23 12:00 J	-621574.13	-621574.00	-621573.87	0.2616	0.1667
Mercury	-6412-09-17 16:33 J	-620299.89	-620299.81	-620299.73	0.2716	0.1827
Mercury	-6399-09-20 10:04 J	-615549.19	-615549.08	-615548.98	0.2717	0.0520

Mercury	-6386-09-23 03:21 J	-610798.46	-610798.36	-610798.26	0.2717	0.0810
Mercury	-6382-03-21 10:04 J	-609523.24	-609523.08	-609522.92	0.2617	0.0643
Mercury	-6373-09-24 20:38 J	-606047.70	-606047.64	-606047.57	0.2717	0.2135
Venus	-6373-11-14 11:45 J	-605997.03	-605997.01	-605996.98	0.2704	0.2658
Mercury	-6369-03-23 18:43 J	-604771.80	-604771.72	-604771.63	0.2616	0.2210
Mercury	-6366-09-18 21:21 J	-603497.70	-603497.61	-603497.53	0.2716	0.1564
Venus	-6365-11-12 02:23 J	-603077.54	-603077.40	-603077.25	0.2705	0.1074
Mercury	-6353-09-20 14:38 J	-598746.99	-598746.89	-598746.78	0.2717	0.0257
Mercury	-6340-09-23 08:09 J	-593996.26	-593996.16	-593996.06	0.2717	0.1077
Mercury	-6336-03-21 17:02 J	-592720.96	-592720.79	-592720.63	0.2617	0.0100
Mercury	-6333-09-16 08:38 J	-591446.16	-591446.14	-591446.11	0.2716	0.2618
Mercury	-6327-09-26 01:26 J	-589245.48	-589245.44	-589245.39	0.2717	0.2398
Mercury	-6320-09-19 02:09 J	-586695.51	-586695.41	-586695.32	0.2716	0.1300
Mercury	-6307-09-21 19:26 J	-581944.80	-581944.69	-581944.58	0.2717	0.0048
Mercury	-6303-03-19 15:07 J	-580669.93	-580669.87	-580669.80	0.2617	0.2398
Mercury	-6294-09-24 12:57 J	-577194.06	-577193.96	-577193.87	0.2717	0.1347
Mercury	-6290-03-23 00:00 J	-575918.66	-575918.50	-575918.34	0.2616	0.0458
Mercury	-6287-09-17 13:26 J	-574643.99	-574643.94	-574643.89	0.2716	0.2351
Mercury	-6281-09-26 06:14 J	-572443.25	-572443.24	-572443.22	0.2717	0.2665
Venus	-6275-05-18 13:40 J	-570383.07	-570382.93	-570382.79	0.2628	0.1216
Mercury	-6274-09-20 06:57 J	-569893.31	-569893.21	-569893.12	0.2716	0.1041
Venus	-6267-05-16 05:45 J	-567463.35	-567463.26	-567463.17	0.2627	0.2141
Mercury	-6261-09-22 00:14 J	-565142.60	-565142.49	-565142.38	0.2717	0.0286
Mercury	-6257-03-19 22:04 J	-563867.69	-563867.58	-563867.46	0.2617	0.1850
Mercury	-6248-09-24 17:31 J	-560391.85	-560391.77	-560391.68	0.2717	0.1611
Mercury	-6244-03-23 06:57 J	-559116.36	-559116.21	-559116.06	0.2617	0.1020
Mercury	-6241-09-17 18:14 J	-557841.81	-557841.74	-557841.67	0.2716	0.2086
Mercury	-6228-09-20 11:31 J	-553091.12	-553091.02	-553090.91	0.2716	0.0773
Mercury	-6215-09-23 05:02 J	-548340.40	-548340.29	-548340.19	0.2717	0.0554
Mercury	-6211-03-21 05:02 J	-547065.43	-547065.29	-547065.14	0.2617	0.1288

Mercury	-6202-09-25 22:19 J	-543589.64	-543589.57	-543589.49	0.2717	0.1874
Mercury	-6198-03-24 13:40 J	-542314.06	-542313.93	-542313.79	0.2616	0.1571
Mercury	-6195-09-18 23:02 J	-541039.62	-541039.54	-541039.46	0.2716	0.1822
Mercury	-6182-09-21 16:19 J	-536288.92	-536288.82	-536288.71	0.2716	0.0504
Mercury	-6169-09-23 09:50 J	-531538.20	-531538.09	-531537.99	0.2717	0.0825
Mercury	-6165-03-21 12:00 J	-530263.16	-530263.00	-530262.84	0.2617	0.0744
Mercury	-6156-09-26 03:07 J	-526787.43	-526787.37	-526787.30	0.2717	0.2141
Mercury	-6152-03-24 20:38 J	-525511.73	-525511.64	-525511.54	0.2616	0.2130
Mercury	-6149-09-19 03:50 J	-524237.43	-524237.34	-524237.26	0.2716	0.1562
Mercury	-6136-09-21 21:07 J	-519486.73	-519486.62	-519486.51	0.2716	0.0237
Venus	-6130-11-15 12:14 J	-517241.04	-517240.99	-517240.94	0.2705	0.2556
Mercury	-6123-09-24 14:23 J	-514735.99	-514735.90	-514735.80	0.2717	0.1092
Venus	-6122-11-13 02:38 J	-514321.53	-514321.39	-514321.24	0.2706	0.1196
Mercury	-6119-03-22 18:57 J	-513460.88	-513460.71	-513460.55	0.2617	0.0189
Mercury	-6116-09-17 15:07 J	-512185.90	-512185.87	-512185.85	0.2715	0.2614
Mercury	-6110-09-27 07:55 J	-509985.22	-509985.17	-509985.12	0.2717	0.2410
Mercury	-6103-09-20 08:23 J	-507435.24	-507435.15	-507435.05	0.2716	0.1296
Mercury	-6090-09-23 01:55 J	-502684.53	-502684.42	-502684.32	0.2716	0.0066
Mercury	-6086-03-20 17:02 J	-501409.84	-501409.79	-501409.75	0.2617	0.2506
Mercury	-6077-09-24 19:11 J	-497933.79	-497933.70	-497933.60	0.2717	0.1355
Mercury	-6073-03-23 01:55 J	-496658.59	-496658.42	-496658.26	0.2617	0.0375
Mercury	-6070-09-18 19:55 J	-495383.72	-495383.67	-495383.62	0.2715	0.2351
Mercury	-6064-09-27 12:43 J	-493182.99	-493182.97	-493182.96	0.2717	0.2673
Mercury	-6057-09-20 13:11 J	-490633.05	-490632.95	-490632.85	0.2716	0.1030
Mercury	-6044-09-23 06:43 J	-485882.33	-485882.22	-485882.12	0.2716	0.0307
Mercury	-6040-03-21 00:00 J	-484607.61	-484607.50	-484607.39	0.2617	0.1947
Venus	-6032-05-18 16:04 J	-481626.97	-481626.83	-481626.70	0.2627	0.1407
Mercury	-6031-09-26 00:00 J	-481131.58	-481131.50	-481131.41	0.2717	0.1615
Mercury	-6027-03-24 08:38 J	-479856.29	-479856.14	-479855.98	0.2617	0.0923
Venus	-6024-05-16 07:55 J	-478707.28	-478707.17	-478707.06	0.2626	0.1949

Mercury	-6024-09-19 00:43 J	-478581.54	-478581.47	-478581.41	0.2715	0.2087
Mercury	-6011-09-21 18:00 J	-473830.85	-473830.75	-473830.65	0.2716	0.0765

6TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 6th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-5998-09-24 11:16 J	-469080.13	-469080.03	-469079.92	0.2716	0.0571		
Mercury	-5994-03-22 06:43 J	-467805.35	-467805.22	-467805.08	0.2617	0.1403		
Mercury	-5985-09-26 04:48 J	-464329.38	-464329.30	-464329.22	0.2717	0.1882		
Mercury	-5981-03-24 15:36 J	-463053.98	-463053.85	-463053.71	0.2617	0.1476		
Mercury	-5978-09-20 05:16 J	-461779.35	-461779.28	-461779.20	0.2715	0.1822		
Mercury	-5965-09-21 22:48 J	-457028.66	-457028.55	-457028.45	0.2716	0.0498		
Mercury	-5952-09-24 16:04 J	-452277.93	-452277.83	-452277.72	0.2716	0.0829		
Mercury	-5948-03-22 13:55 J	-451003.08	-451002.92	-451002.77	0.2617	0.0836		
Mercury	-5939-09-27 09:36 J	-447527.17	-447527.10	-447527.04	0.2717	0.2149		
Mercury	-5935-03-25 22:33 J	-446251.66	-446251.56	-446251.46	0.2617	0.2030		
Mercury	-5932-09-20 10:04 J	-444977.17	-444977.08	-444976.99	0.2716	0.1553		
Mercury	-5919-09-23 03:36 J	-440226.46	-440226.35	-440226.25	0.2716	0.0247		
Mercury	-5906-09-25 20:52 J	-435475.72	-435475.63	-435475.53	0.2717	0.1094		
Mercury	-5902-03-23 20:52 J	-434200.80	-434200.63	-434200.47	0.2617	0.0286		
Mercury	-5899-09-18 21:36 J	-432925.63	-432925.60	-432925.58	0.2715	0.2611		
Mercury	-5893-09-27 14:23 J	-430724.95	-430724.90	-430724.86	0.2717	0.2415		
Mercury	-5889-03-26 05:31 J	-429449.28	-429449.27	-429449.25	0.2617	0.2598		

Venus	-5887-11-15 12:14 J	-428485.06	-428484.99	-428484.92	0.2706	0.2426
Mercury	-5886-09-21 14:52 J	-428174.97	-428174.88	-428174.79	0.2715	0.1290
Venus	-5879-11-13 02:38 J	-425565.53	-425565.39	-425565.25	0.2707	0.1361
Mercury	-5873-09-23 08:23 J	-423424.26	-423424.15	-423424.05	0.2716	0.0105
Mercury	-5869-03-20 18:57 J	-422149.73	-422149.71	-422149.70	0.2618	0.2599
Mercury	-5860-09-26 01:40 J	-418673.52	-418673.43	-418673.34	0.2717	0.1358
Mercury	-5856-03-24 03:36 J	-417398.51	-417398.35	-417398.18	0.2617	0.0288
Mercury	-5853-09-19 02:09 J	-416123.46	-416123.41	-416123.35	0.2715	0.2348
Mercury	-5847-09-28 18:57 J	-413922.72	-413922.71	-413922.69	0.2717	0.2683
Mercury	-5840-09-21 19:40 J	-411372.78	-411372.68	-411372.58	0.2716	0.1023
Mercury	-5827-09-24 12:57 J	-406622.06	-406621.96	-406621.85	0.2716	0.0320
Mercury	-5823-03-22 01:40 J	-405347.53	-405347.43	-405347.33	0.2618	0.2050
Mercury	-5814-09-27 06:28 J	-401871.32	-401871.23	-401871.15	0.2716	0.1626
Mercury	-5810-03-25 10:33 J	-400596.22	-400596.06	-400595.90	0.2617	0.0829
Mercury	-5807-09-20 06:57 J	-399321.28	-399321.21	-399321.14	0.2715	0.2081
Mercury	-5794-09-23 00:28 J	-394570.58	-394570.48	-394570.38	0.2716	0.0759
Venus	-5789-05-18 18:00 J	-392870.87	-392870.75	-392870.62	0.2626	0.1566
Venus	-5781-05-16 10:04 J	-389951.19	-389951.08	-389950.96	0.2625	0.1777
Mercury	-5781-09-24 17:45 J	-389819.86	-389819.76	-389819.65	0.2716	0.0571
Mercury	-5777-03-22 08:38 J	-388545.27	-388545.14	-388545.00	0.2618	0.1487
Mercury	-5768-09-27 11:16 J	-385069.11	-385069.03	-385068.96	0.2717	0.1894
Mercury	-5764-03-25 17:31 J	-383793.91	-383793.77	-383793.63	0.2617	0.1388
Mercury	-5761-09-20 11:45 J	-382519.09	-382519.01	-382518.93	0.2715	0.1817
Mercury	-5748-09-23 05:16 J	-377768.39	-377768.28	-377768.18	0.2716	0.0505
Mercury	-5735-09-25 22:33 J	-373017.66	-373017.56	-373017.46	0.2716	0.0833
Mercury	-5731-03-23 15:36 J	-371743.00	-371742.85	-371742.69	0.2618	0.0937
Mercury	-5722-09-28 15:50 J	-368266.90	-368266.84	-368266.77	0.2717	0.2162
Mercury	-5718-03-27 00:28 J	-366991.59	-366991.48	-366991.37	0.2617	0.1948
Mercury	-5715-09-21 16:33 J	-365716.90	-365716.81	-365716.72	0.2715	0.1553
Mercury	-5702-09-24 09:50 J	-360966.19	-360966.09	-360965.98	0.2716	0.0247

Mercury	-5689-09-26 03:21 J	-356215.46	-356215.36	-356215.27	0.2716	0.1102
Mercury	-5685-03-23 22:33 J	-354940.72	-354940.56	-354940.40	0.2618	0.0378
Mercury	-5682-09-20 03:50 J	-353665.36	-353665.34	-353665.31	0.2715	0.2608
Mercury	-5676-09-28 20:38 J	-351464.68	-351464.64	-351464.59	0.2717	0.2424
Mercury	-5672-03-27 07:11 J	-350189.24	-350189.20	-350189.15	0.2617	0.2494
Mercury	-5669-09-21 21:21 J	-348914.71	-348914.61	-348914.52	0.2715	0.1284
Mercury	-5656-09-24 14:38 J	-344163.99	-344163.89	-344163.78	0.2716	0.0069
Venus	-5644-11-15 12:28 J	-339729.06	-339728.98	-339728.90	0.2707	0.2297
Mercury	-5643-09-27 08:09 J	-339413.26	-339413.16	-339413.07	0.2716	0.1368
Mercury	-5639-03-25 05:31 J	-338138.44	-338138.27	-338138.11	0.2618	0.0183
Mercury	-5636-09-20 08:38 J	-336863.19	-336863.14	-336863.09	0.2715	0.2341
Venus	-5636-11-13 02:38 J	-336809.52	-336809.39	-336809.25	0.2708	0.1494
Mercury	-5630-09-30 01:26 J	-334662.45	-334662.44	-334662.43	0.2717	0.2692
Mercury	-5623-09-23 02:09 J	-332112.51	-332112.41	-332112.31	0.2715	0.1020
Mercury	-5610-09-25 19:26 J	-327361.80	-327361.69	-327361.58	0.2716	0.0310
Mercury	-5606-03-23 03:36 J	-326087.44	-326087.35	-326087.25	0.2618	0.2139
Mercury	-5597-09-27 12:43 J	-322611.05	-322610.97	-322610.88	0.2716	0.1636
Mercury	-5593-03-25 12:28 J	-321336.14	-321335.98	-321335.83	0.2617	0.0740
Mercury	-5590-09-21 13:26 J	-320061.01	-320060.94	-320060.87	0.2715	0.2077
Mercury	-5577-09-23 06:43 J	-315310.32	-315310.22	-315310.11	0.2715	0.0757
Mercury	-5564-09-26 00:14 J	-310559.60	-310559.49	-310559.39	0.2716	0.0578
Mercury	-5560-03-23 10:33 J	-309285.19	-309285.06	-309284.93	0.2618	0.1589
Mercury	-5551-09-28 17:31 J	-305808.84	-305808.77	-305808.69	0.2716	0.1905
Mercury	-5547-03-26 19:26 J	-304533.84	-304533.69	-304533.55	0.2617	0.1301
Venus	-5546-05-19 20:38 J	-304114.76	-304114.64	-304114.53	0.2626	0.1768
Mercury	-5544-09-21 18:14 J	-303258.82	-303258.74	-303258.66	0.2715	0.1810
Venus	-5538-05-17 12:43 J	-301195.10	-301194.97	-301194.84	0.2624	0.1563
Mercury	-5531-09-24 11:31 J	-298508.12	-298508.02	-298507.91	0.2715	0.0490
Mercury	-5518-09-27 05:02 J	-293757.39	-293757.29	-293757.19	0.2716	0.0848
Mercury	-5514-03-24 17:31 J	-292482.92	-292482.77	-292482.62	0.2618	0.1030

Mercury	-5505-09-28 22:19 J	-289006.63	-289006.57	-289006.51	0.2716	0.2170
Mercury	-5501-03-27 02:09 J	-287731.52	-287731.41	-287731.29	0.2617	0.1853
Mercury	-5498-09-22 23:02 J	-286456.63	-286456.54	-286456.46	0.2715	0.1545
Mercury	-5485-09-24 16:19 J	-281705.93	-281705.82	-281705.71	0.2715	0.0216
Mercury	-5472-09-27 09:36 J	-276955.19	-276955.10	-276955.00	0.2716	0.1115
Mercury	-5468-03-25 00:14 J	-275680.65	-275680.49	-275680.32	0.2618	0.0481
Mercury	-5465-09-20 10:19 J	-274405.10	-274405.07	-274405.04	0.2714	0.2607
Mercury	-5459-09-30 03:07 J	-272204.41	-272204.37	-272204.32	0.2716	0.2437
Mercury	-5455-03-28 09:07 J	-270929.18	-270929.12	-270929.06	0.2617	0.2412
Mercury	-5452-09-23 03:36 J	-269654.44	-269654.35	-269654.25	0.2715	0.1281
Mercury	-5439-09-25 21:07 J	-264903.73	-264903.62	-264903.51	0.2715	0.0059
Mercury	-5426-09-28 14:24 J	-260152.99	-260152.90	-260152.81	0.2716	0.1381
Mercury	-5422-03-26 07:11 J	-258878.36	-258878.20	-258878.03	0.2618	0.0093
Mercury	-5419-09-21 15:07 J	-257602.92	-257602.87	-257602.82	0.2714	0.2340
Mercury	-5413-09-30 07:55 J	-255402.18	-255402.17	-255402.17	0.2716	0.2704
Mercury	-5406-09-24 08:24 J	-252852.25	-252852.15	-252852.05	0.2715	0.1014
Venus	-5401-11-15 12:14 J	-250973.09	-250972.99	-250972.90	0.2708	0.2131
Mercury	-5393-09-26 01:55 J	-248101.53	-248101.42	-248101.32	0.2715	0.0331
Venus	-5393-11-13 02:24 J	-248053.52	-248053.40	-248053.28	0.2709	0.1699
Mercury	-5389-03-23 05:16 J	-246827.36	-246827.28	-246827.19	0.2619	0.2253
Mercury	-5380-09-28 19:11 J	-243350.78	-243350.70	-243350.61	0.2716	0.1646
Mercury	-5376-03-26 14:09 J	-242076.07	-242075.91	-242075.75	0.2618	0.0641
Mercury	-5373-09-21 19:55 J	-240800.74	-240800.67	-240800.61	0.2714	0.2070
Mercury	-5360-09-24 13:11 J	-236050.05	-236049.95	-236049.85	0.2715	0.0746
Mercury	-5347-09-27 06:43 J	-231299.33	-231299.22	-231299.12	0.2715	0.0593
Mercury	-5343-03-24 12:14 J	-230025.11	-230024.99	-230024.86	0.2619	0.1689
Mercury	-5334-09-30 00:00 J	-226548.57	-226548.50	-226548.43	0.2716	0.1911
Mercury	-5330-03-27 21:07 J	-225273.77	-225273.62	-225273.48	0.2618	0.1200
Mercury	-5327-09-23 00:43 J	-223998.55	-223998.47	-223998.40	0.2714	0.1806
Mercury	-5314-09-25 18:00 J	-219247.86	-219247.75	-219247.65	0.2715	0.0474

Venus	-5303-05-19 23:02 J	-215358.65	-215358.54	-215358.44	0.2625	0.1943
Mercury	-5301-09-27 11:16 J	-214497.13	-214497.03	-214496.92	0.2715	0.0860
Mercury	-5297-03-24 19:11 J	-213222.85	-213222.70	-213222.55	0.2618	0.1129
Venus	-5295-05-17 15:07 J	-212439.01	-212438.87	-212438.74	0.2624	0.1375
Mercury	-5288-09-30 04:48 J	-209746.36	-209746.30	-209746.24	0.2716	0.2178
Mercury	-5284-03-28 04:04 J	-208471.45	-208471.33	-208471.21	0.2618	0.1765
Mercury	-5281-09-23 05:16 J	-207196.36	-207196.28	-207196.19	0.2714	0.1536
Mercury	-5268-09-25 22:48 J	-202445.66	-202445.55	-202445.45	0.2715	0.0210
Mercury	-5255-09-28 16:04 J	-197694.92	-197694.83	-197694.73	0.2716	0.1126
Mercury	-5251-03-26 02:09 J	-196420.57	-196420.41	-196420.25	0.2618	0.0566
Mercury	-5248-09-21 16:48 J	-195144.83	-195144.80	-195144.78	0.2714	0.2599
Mercury	-5242-10-01 09:35 J	-192944.15	-192944.10	-192944.06	0.2716	0.2451
Mercury	-5238-03-29 11:02 J	-191669.11	-191669.04	-191668.97	0.2618	0.2328
Mercury	-5235-09-24 10:04 J	-190394.17	-190394.08	-190393.98	0.2714	0.1271
Mercury	-5222-09-27 03:35 J	-185643.46	-185643.35	-185643.25	0.2715	0.0110
Mercury	-5209-09-28 20:52 J	-180892.72	-180892.63	-180892.54	0.2715	0.1391
Mercury	-5205-03-26 09:07 J	-179618.28	-179618.12	-179617.95	0.2618	0.0006
Mercury	-5202-09-22 21:21 J	-178342.66	-178342.61	-178342.55	0.2714	0.2332
Mercury	-5189-09-24 14:52 J	-173591.98	-173591.88	-173591.78	0.2714	0.1002
Mercury	-5176-09-27 08:24 J	-168841.26	-168841.15	-168841.05	0.2715	0.0345
Mercury	-5172-03-24 07:11 J	-167567.27	-167567.20	-167567.13	0.2619	0.2340
Mercury	-5163-09-30 01:40 J	-164090.51	-164090.43	-164090.35	0.2716	0.1657
Mercury	-5159-03-27 16:04 J	-162815.99	-162815.83	-162815.67	0.2618	0.0555
Venus	-5158-11-16 12:14 J	-162217.10	-162216.99	-162216.89	0.2709	0.1991
Mercury	-5156-09-23 02:09 J	-161540.47	-161540.41	-161540.34	0.2714	0.2065
Venus	-5150-11-14 02:24 J	-159297.52	-159297.40	-159297.29	0.2710	0.1845
Mercury	-5143-09-25 19:40 J	-156789.78	-156789.68	-156789.58	0.2714	0.0734
Mercury	-5130-09-28 12:57 J	-152039.06	-152038.96	-152038.85	0.2715	0.0604
Mercury	-5126-03-25 14:09 J	-150765.03	-150764.91	-150764.79	0.2619	0.1789
Mercury	-5117-09-30 06:28 J	-147288.31	-147288.23	-147288.16	0.2715	0.1924

Mercury	-5113-03-27 23:02 J	-146013.69	-146013.54	-146013.39	0.2618	0.1115
Mercury	-5110-09-24 06:57 J	-144738.29	-144738.21	-144738.13	0.2714	0.1798
Mercury	-5097-09-26 00:28 J	-139987.59	-139987.48	-139987.38	0.2714	0.0470
Mercury	-5084-09-28 17:45 J	-135236.86	-135236.76	-135236.66	0.2715	0.0865
Mercury	-5080-03-25 21:07 J	-133962.77	-133962.62	-133962.47	0.2619	0.1220
Mercury	-5071-10-01 11:02 J	-130486.10	-130486.04	-130485.97	0.2716	0.2198
Mercury	-5067-03-29 05:45 J	-129211.38	-129211.26	-129211.13	0.2618	0.1675
Mercury	-5064-09-24 11:45 J	-127936.10	-127936.01	-127935.92	0.2714	0.1529
Venus	-5060-05-20 01:26 J	-126602.53	-126602.44	-126602.35	0.2624	0.2149
Venus	-5052-05-17 17:45 J	-123682.90	-123682.76	-123682.61	0.2623	0.1164
Mercury	-5051-09-27 05:16 J	-123185.39	-123185.28	-123185.18	0.2715	0.0229
Mercury	-5038-09-29 22:33 J	-118434.66	-118434.56	-118434.46	0.2715	0.1132
Mercury	-5034-03-27 04:04 J	-117160.49	-117160.33	-117160.17	0.2619	0.0664
Mercury	-5031-09-22 23:02 J	-115884.57	-115884.54	-115884.51	0.2713	0.2589
Mercury	-5025-10-01 15:50 J	-113683.88	-113683.84	-113683.79	0.2716	0.2463
Mercury	-5021-03-29 12:43 J	-112409.05	-112408.97	-112408.88	0.2618	0.2245
Mercury	-5018-09-25 16:33 J	-111133.90	-111133.81	-111133.72	0.2714	0.1257
Mercury	-5005-09-27 09:50 J	-106383.19	-106383.09	-106382.98	0.2715	0.0121

5TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 5th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-4992-09-30 03:21 J	-101632.45	-101632.36	-101632.27	0.2715	0.1401		

Mercury	-4988-03-27 11:02 J	-100358.21	-100358.04	-100357.88	0.2619	0.0092
Mercury	-4985-09-23 03:50 J	-99082.39	-99082.34	-99082.28	0.2713	0.2321
Mercury	-4972-09-25 21:21 J	-94331.71	-94331.61	-94331.51	0.2714	0.0990
Mercury	-4959-09-28 14:38 J	-89580.99	-89580.89	-89580.78	0.2715	0.0346
Mercury	-4955-03-25 09:07 J	-88307.18	-88307.12	-88307.06	0.2620	0.2435
Mercury	-4946-10-01 07:55 J	-84830.25	-84830.17	-84830.08	0.2715	0.1674
Mercury	-4942-03-28 18:00 J	-83555.92	-83555.75	-83555.59	0.2619	0.0472
Mercury	-4939-09-24 08:38 J	-82280.21	-82280.14	-82280.07	0.2713	0.2056
Mercury	-4926-09-27 02:09 J	-77529.52	-77529.41	-77529.31	0.2714	0.0725
Venus	-4915-11-16 12:00 J	-73461.12	-73461.00	-73460.89	0.2710	0.1810
Mercury	-4913-09-28 19:26 J	-72778.79	-72778.69	-72778.59	0.2715	0.0609
Mercury	-4909-03-25 16:04 J	-71504.94	-71504.83	-71504.72	0.2619	0.1866
Venus	-4907-11-14 01:40 J	-70541.53	-70541.43	-70541.32	0.2711	0.2060
Mercury	-4900-10-01 12:43 J	-68028.04	-68027.97	-68027.89	0.2715	0.1943
Mercury	-4896-03-29 00:43 J	-66753.62	-66753.47	-66753.31	0.2619	0.1028
Mercury	-4893-09-24 13:26 J	-65478.02	-65477.94	-65477.86	0.2713	0.1785
Mercury	-4880-09-27 06:43 J	-60727.32	-60727.22	-60727.11	0.2714	0.0466
Mercury	-4867-09-30 00:14 J	-55976.59	-55976.49	-55976.39	0.2715	0.0879
Mercury	-4863-03-26 23:02 J	-54702.69	-54702.54	-54702.40	0.2619	0.1317
Mercury	-4854-10-02 17:31 J	-51225.83	-51225.77	-51225.71	0.2715	0.2210
Mercury	-4850-03-30 07:40 J	-49951.31	-49951.18	-49951.05	0.2619	0.1594
Mercury	-4847-09-25 18:14 J	-48675.83	-48675.74	-48675.65	0.2713	0.1518
Mercury	-4834-09-28 11:31 J	-43925.12	-43925.02	-43924.91	0.2714	0.0192
Mercury	-4821-09-30 05:02 J	-39174.39	-39174.29	-39174.20	0.2715	0.1149
Mercury	-4817-03-27 06:00 J	-37900.41	-37900.25	-37900.10	0.2619	0.0751
Venus	-4817-05-20 04:04 J	-37846.40	-37846.33	-37846.26	0.2623	0.2349
Mercury	-4814-09-24 05:31 J	-36624.30	-36624.27	-36624.24	0.2713	0.2582
Venus	-4809-05-17 20:38 J	-34926.79	-34926.64	-34926.50	0.2622	0.0950
Mercury	-4808-10-02 22:19 J	-34423.61	-34423.57	-34423.53	0.2715	0.2476
Mercury	-4804-03-30 14:38 J	-33148.98	-33148.89	-33148.80	0.2618	0.2150

Mercury	-4801-09-25 23:02 J	-31873.64	-31873.54	-31873.45	0.2713	0.1253
Mercury	-4788-09-28 16:19 J	-27122.93	-27122.82	-27122.71	0.2714	0.0084
Mercury	-4775-10-01 09:36 J	-22372.19	-22372.10	-22372.00	0.2715	0.1421
Mercury	-4771-03-28 12:43 J	-21098.14	-21097.97	-21097.81	0.2619	0.0199
Mercury	-4768-09-24 10:19 J	-19822.12	-19822.07	-19822.02	0.2713	0.2314
Mercury	-4755-09-27 03:35 J	-15071.44	-15071.35	-15071.25	0.2714	0.0988
Mercury	-4742-09-29 21:07 J	-10320.73	-10320.62	-10320.52	0.2714	0.0353
Mercury	-4738-03-26 11:02 J	-9047.08	-9047.04	-9047.00	0.2620	0.2522
Mercury	-4729-10-01 14:24 J	-5569.98	-5569.90	-5569.81	0.2715	0.1686
Mercury	-4725-03-28 19:40 J	-4295.84	-4295.68	-4295.52	0.2619	0.0371
Mercury	-4722-09-25 15:07 J	-3019.94	-3019.87	-3019.80	0.2713	0.2044
Mercury	-4709-09-27 08:23 J	1730.75	1730.85	1730.96	0.2714	0.0714
Mercury	-4696-09-30 01:55 J	6481.47	6481.58	6481.68	0.2714	0.0625
Mercury	-4692-03-26 17:45 J	7755.14	7755.24	7755.35	0.2620	0.1970
Mercury	-4683-10-02 19:11 J	11232.23	11232.30	11232.37	0.2715	0.1954
Mercury	-4679-03-30 02:38 J	12506.45	12506.61	12506.76	0.2619	0.0938
Mercury	-4676-09-25 19:55 J	13782.25	13782.33	13782.41	0.2713	0.1776
Venus	-4672-11-16 11:31 J	15294.86	15294.98	15295.11	0.2711	0.1639
Venus	-4664-11-14 01:40 J	18214.48	18214.57	18214.65	0.2712	0.2242
Mercury	-4663-09-28 13:11 J	18532.95	18533.05	18533.16	0.2714	0.0441
Mercury	-4650-10-01 06:43 J	23283.68	23283.78	23283.88	0.2714	0.0897
Mercury	-4646-03-28 00:43 J	24557.40	24557.53	24557.67	0.2620	0.1402
Mercury	-4637-10-03 00:00 J	28034.44	28034.50	28034.56	0.2715	0.2222
Mercury	-4633-03-30 09:36 J	29308.76	29308.90	29309.03	0.2619	0.1505
Mercury	-4630-09-27 00:43 J	30584.44	30584.53	30584.61	0.2713	0.1510
Mercury	-4617-09-28 18:00 J	35335.14	35335.25	35335.36	0.2714	0.0171
Mercury	-4604-10-01 11:16 J	40085.88	40085.97	40086.07	0.2714	0.1170
Mercury	-4600-03-28 07:40 J	41359.66	41359.82	41359.97	0.2620	0.0850
Mercury	-4597-09-24 12:00 J	42635.97	42636.00	42636.03	0.2712	0.2573
Mercury	-4591-10-04 04:47 J	44836.66	44836.70	44836.74	0.2715	0.2493

Mercury	-4587-03-31 16:33 J	46111.09	46111.19	46111.29	0.2619	0.2070
Mercury	-4584-09-27 05:16 J	47386.63	47386.72	47386.82	0.2713	0.1240
Venus	-4574-05-21 06:57 J	50909.75	50909.79	50909.82	0.2623	0.2551
Mercury	-4571-09-29 22:47 J	52137.34	52137.45	52137.56	0.2714	0.0102
Venus	-4566-05-18 23:16 J	53829.32	53829.47	53829.62	0.2622	0.0741
Mercury	-4558-10-02 16:04 J	56888.08	56888.17	56888.26	0.2714	0.1434
Mercury	-4554-03-29 14:38 J	58161.95	58162.11	58162.27	0.2620	0.0275
Mercury	-4551-09-25 16:47 J	59438.14	59438.20	59438.25	0.2712	0.2307
Mercury	-4538-09-28 10:04 J	64188.82	64188.92	64189.02	0.2713	0.0968
Mercury	-4525-09-30 03:35 J	68939.54	68939.65	68939.75	0.2714	0.0375
Mercury	-4512-10-02 20:52 J	73690.29	73690.37	73690.45	0.2714	0.1701
Mercury	-4508-03-29 21:35 J	74964.23	74964.40	74964.56	0.2620	0.0288
Mercury	-4505-09-25 21:21 J	76240.33	76240.39	76240.46	0.2712	0.2038
Mercury	-4492-09-28 14:52 J	80991.02	80991.12	80991.22	0.2713	0.0700
Mercury	-4479-10-01 08:24 J	85741.74	85741.85	85741.95	0.2714	0.0647
Mercury	-4475-03-27 19:40 J	87015.22	87015.32	87015.42	0.2621	0.2065
Mercury	-4466-10-04 01:40 J	90492.50	90492.57	90492.64	0.2714	0.1969
Mercury	-4462-03-31 04:33 J	91766.53	91766.69	91766.84	0.2619	0.0853
Mercury	-4459-09-27 02:09 J	93042.51	93042.59	93042.67	0.2712	0.1767
Mercury	-4446-09-29 19:40 J	97793.21	97793.32	97793.42	0.2713	0.0429
Mercury	-4433-10-01 12:57 J	102543.94	102544.04	102544.14	0.2714	0.0909
Mercury	-4429-03-28 02:38 J	103817.47	103817.61	103817.74	0.2620	0.1506
Venus	-4429-11-16 11:16 J	104050.84	104050.97	104051.10	0.2711	0.1451
Venus	-4421-11-14 00:57 J	106970.48	106970.54	106970.60	0.2712	0.2460
Mercury	-4420-10-04 06:28 J	107294.71	107294.77	107294.82	0.2714	0.2240
Mercury	-4416-03-31 11:16 J	108568.83	108568.97	108569.11	0.2619	0.1407
Mercury	-4413-09-27 06:57 J	109844.70	109844.79	109844.88	0.2712	0.1495
Mercury	-4400-09-30 00:28 J	114595.41	114595.52	114595.63	0.2713	0.0161
Mercury	-4387-10-02 17:45 J	119346.15	119346.24	119346.34	0.2714	0.1177
Mercury	-4383-03-29 09:35 J	120619.74	120619.90	120620.05	0.2620	0.0927

Mercury	-4380-09-25 18:28 J	121896.23	121896.27	121896.30	0.2712	0.2565
Mercury	-4374-10-05 11:02 J	124096.93	124096.96	124097.00	0.2714	0.2509
Mercury	-4370-04-01 18:14 J	125371.15	125371.26	125371.37	0.2619	0.1980
Mercury	-4367-09-28 11:45 J	126646.90	126646.99	126647.09	0.2712	0.1223
Mercury	-4354-10-01 05:16 J	131397.61	131397.72	131397.82	0.2713	0.0147
Mercury	-4341-10-02 22:33 J	136148.35	136148.44	136148.53	0.2714	0.1447
Mercury	-4337-03-29 16:33 J	137422.02	137422.19	137422.35	0.2620	0.0373
Mercury	-4334-09-26 23:02 J	138698.41	138698.46	138698.52	0.2712	0.2292
Mercury	-4324-04-02 01:11 J	142173.52	142173.55	142173.58	0.2619	0.2557
Venus	-4323-05-19 02:09 J	142585.44	142585.59	142585.75	0.2621	0.0517
Mercury	-4321-09-28 16:33 J	143449.09	143449.19	143449.29	0.2712	0.0954
Mercury	-4308-10-01 09:50 J	148199.81	148199.91	148200.02	0.2713	0.0399
Mercury	-4295-10-04 03:21 J	152950.56	152950.64	152950.72	0.2714	0.1719
Mercury	-4291-03-30 23:31 J	154224.31	154224.48	154224.64	0.2620	0.0215
Mercury	-4288-09-27 03:50 J	155500.59	155500.66	155500.73	0.2712	0.2023
Mercury	-4275-09-29 21:21 J	160251.29	160251.39	160251.49	0.2713	0.0683
Mercury	-4262-10-02 14:38 J	165002.01	165002.11	165002.22	0.2713	0.0656
Mercury	-4258-03-28 21:35 J	166275.30	166275.40	166275.49	0.2621	0.2153
Mercury	-4249-10-04 08:09 J	169752.76	169752.84	169752.91	0.2714	0.1989
Mercury	-4245-03-31 06:14 J	171026.60	171026.76	171026.92	0.2620	0.0758
Mercury	-4242-09-28 08:38 J	172302.78	172302.86	172302.94	0.2712	0.1752
Mercury	-4229-09-30 02:09 J	177053.48	177053.59	177053.69	0.2713	0.0421
Mercury	-4216-10-02 19:26 J	181804.21	181804.31	181804.41	0.2713	0.0922
Mercury	-4212-03-29 04:33 J	183077.56	183077.69	183077.82	0.2621	0.1586
Mercury	-4203-10-05 12:43 J	186554.98	186555.03	186555.09	0.2714	0.2258
Mercury	-4199-04-01 13:11 J	187828.91	187829.05	187829.19	0.2620	0.1331
Mercury	-4196-09-28 13:26 J	189104.97	189105.06	189105.15	0.2712	0.1484
Venus	-4186-11-17 10:33 J	192806.80	192806.94	192807.08	0.2712	0.1227
Mercury	-4183-10-01 06:43 J	193855.68	193855.78	193855.89	0.2713	0.0174
Venus	-4178-11-15 00:14 J	195726.50	195726.51	195726.53	0.2713	0.2684

Mercury	-4170-10-04 00:14 J	198606.41	198606.51	198606.60	0.2713	0.1192
Mercury	-4166-03-30 11:16 J	199879.82	199879.97	199880.12	0.2621	0.1030
Mercury	-4163-09-27 00:43 J	201156.50	201156.53	201156.57	0.2711	0.2551
Mercury	-4157-10-05 17:31 J	203357.20	203357.23	203357.27	0.2714	0.2528
Mercury	-4153-04-01 20:09 J	204631.22	204631.34	204631.45	0.2620	0.1895
Mercury	-4150-09-29 18:14 J	205907.16	205907.26	205907.35	0.2712	0.1211
Mercury	-4137-10-01 11:31 J	210657.88	210657.98	210658.09	0.2713	0.0133
Mercury	-4124-10-04 05:02 J	215408.62	215408.71	215408.80	0.2713	0.1464
Mercury	-4120-03-30 18:14 J	216682.10	216682.26	216682.42	0.2621	0.0460
Mercury	-4117-09-27 05:31 J	217958.68	217958.73	217958.79	0.2711	0.2278
Mercury	-4107-04-03 02:52 J	221433.57	221433.62	221433.68	0.2620	0.2458
Mercury	-4104-09-29 23:02 J	222709.36	222709.46	222709.56	0.2712	0.0942
Mercury	-4091-10-02 16:19 J	227460.07	227460.18	227460.29	0.2713	0.0398
Venus	-4080-05-19 05:02 J	231341.55	231341.71	231341.87	0.2621	0.0313
Mercury	-4078-10-05 09:50 J	232210.82	232210.91	232210.99	0.2713	0.1734
Mercury	-4074-04-01 01:11 J	233484.38	233484.55	233484.71	0.2621	0.0119
Mercury	-4071-09-28 10:19 J	234760.86	234760.93	234761.00	0.2711	0.2008
Mercury	-4058-10-01 03:50 J	239511.55	239511.66	239511.76	0.2712	0.0678
Mercury	-4045-10-02 21:07 J	244262.28	244262.38	244262.48	0.2713	0.0669
Mercury	-4041-03-28 23:31 J	245535.39	245535.48	245535.56	0.2622	0.2233
Mercury	-4032-10-05 14:24 J	249013.03	249013.10	249013.17	0.2714	0.2006
Mercury	-4028-04-01 08:09 J	250286.68	250286.84	250287.00	0.2620	0.0680
Mercury	-4025-09-28 15:07 J	251563.05	251563.13	251563.21	0.2711	0.1741
Mercury	-4012-10-01 08:24 J	256313.75	256313.85	256313.96	0.2712	0.0407

4TH MILLENNIUM BCE

This is a list of transits visible from Earth in the 4th millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-3999-10-04 01:55 J		261064.48	261064.58	261064.68	0.2713	0.0941	
Mercury	-3995-03-30 06:14 J		262337.63	262337.76	262337.88	0.2621	0.1679	
Mercury	-3986-10-06 19:11 J		265815.25	265815.30	265815.36	0.2714	0.2276	
Mercury	-3982-04-02 14:52 J		267088.98	267089.12	267089.27	0.2620	0.1243	
Mercury	-3979-09-29 19:55 J		268365.24	268365.33	268365.42	0.2711	0.1469	
Mercury	-3966-10-02 13:11 J		273115.94	273116.05	273116.16	0.2712	0.0135	
Mercury	-3953-10-04 06:43 J		277866.68	277866.78	277866.87	0.2713	0.1211	
Mercury	-3949-03-30 13:11 J		279139.90	279140.05	279140.20	0.2621	0.1116	
Mercury	-3946-09-28 07:11 J		280416.77	280416.80	280416.83	0.2710	0.2538	
Venus	-3943-11-17 10:04 J		281562.77	281562.92	281563.07	0.2713	0.1026	
Mercury	-3940-10-07 00:00 J		282617.47	282617.50	282617.53	0.2714	0.2544	
Mercury	-3936-04-02 21:50 J		283891.29	283891.41	283891.53	0.2620	0.1808	
Mercury	-3933-09-30 00:43 J		285167.43	285167.53	285167.62	0.2711	0.1204	
Mercury	-3920-10-02 18:00 J		289918.14	289918.25	289918.36	0.2712	0.0143	
Mercury	-3907-10-05 11:16 J		294668.89	294668.97	294669.06	0.2713	0.1485	
Mercury	-3903-03-31 19:55 J		295942.17	295942.33	295942.49	0.2621	0.0557	
Mercury	-3900-09-28 12:00 J		297218.94	297219.00	297219.05	0.2711	0.2272	
Mercury	-3890-04-04 04:48 J		300693.63	300693.70	300693.77	0.2620	0.2372	
Mercury	-3887-10-01 05:16 J		301969.62	301969.72	301969.82	0.2711	0.0930	
Mercury	-3874-10-03 22:48 J		306720.34	306720.45	306720.55	0.2712	0.0414	
Mercury	-3861-10-05 16:04 J		311471.09	311471.17	311471.25	0.2713	0.1753	
Mercury	-3857-04-01 02:52 J		312744.46	312744.62	312744.79	0.2621	0.0044	
Mercury	-3854-09-29 16:48 J		314021.13	314021.20	314021.27	0.2711	0.2000	
Mercury	-3841-10-01 10:04 J		318771.82	318771.92	318772.03	0.2712	0.0660	
Venus	-3837-05-19 08:09 J		320097.68	320097.84	320098.00	0.2620	0.0080	

Mercury	-3828-10-04 03:36 J	323522.54	323522.65	323522.75	0.2712	0.0688
Mercury	-3824-03-30 01:11 J	324795.47	324795.55	324795.62	0.2622	0.2341
Mercury	-3815-10-06 20:52 J	328273.30	328273.37	328273.44	0.2713	0.2020
Mercury	-3811-04-02 09:50 J	329546.75	329546.91	329547.07	0.2621	0.0579
Mercury	-3808-09-29 21:36 J	330823.31	330823.40	330823.48	0.2711	0.1728
Mercury	-3795-10-02 14:52 J	335574.02	335574.12	335574.23	0.2712	0.0384
Mercury	-3782-10-05 08:23 J	340324.75	340324.85	340324.95	0.2712	0.0958
Mercury	-3778-03-31 08:09 J	341597.72	341597.84	341597.96	0.2622	0.1771
Mercury	-3769-10-07 01:40 J	345075.51	345075.57	345075.62	0.2713	0.2290
Mercury	-3765-04-02 16:48 J	346349.05	346349.20	346349.35	0.2621	0.1150
Mercury	-3762-10-01 02:09 J	347625.50	347625.59	347625.68	0.2711	0.1457
Mercury	-3749-10-02 19:40 J	352376.21	352376.32	352376.43	0.2712	0.0111
Mercury	-3736-10-05 12:57 J	357126.95	357127.04	357127.14	0.2712	0.1232
Mercury	-3732-03-31 14:52 J	358399.98	358400.12	358400.27	0.2622	0.1208
Mercury	-3729-09-28 13:40 J	359677.03	359677.07	359677.10	0.2710	0.2530
Mercury	-3723-10-08 06:28 J	361877.73	361877.77	361877.80	0.2713	0.2561
Mercury	-3719-04-03 23:45 J	363151.36	363151.49	363151.61	0.2621	0.1720
Mercury	-3716-10-01 06:57 J	364427.70	364427.79	364427.89	0.2711	0.1185
Mercury	-3703-10-04 00:28 J	369178.41	369178.52	369178.63	0.2712	0.0164
Venus	-3700-11-17 09:07 J	370318.73	370318.88	370319.04	0.2713	0.0786
Mercury	-3690-10-06 17:45 J	373929.15	373929.24	373929.33	0.2713	0.1500
Mercury	-3686-04-01 21:50 J	375202.25	375202.41	375202.57	0.2622	0.0637
Mercury	-3683-09-29 18:14 J	376479.21	376479.26	376479.32	0.2710	0.2259
Mercury	-3673-04-04 06:28 J	379953.70	379953.77	379953.85	0.2621	0.2292
Mercury	-3670-10-02 11:45 J	381229.89	381229.99	381230.09	0.2711	0.0914
Mercury	-3657-10-04 05:16 J	385980.61	385980.72	385980.82	0.2712	0.0440
Mercury	-3644-10-06 22:33 J	390731.36	390731.44	390731.52	0.2712	0.1770
Mercury	-3640-04-02 04:48 J	392004.53	392004.70	392004.86	0.2622	0.0085
Mercury	-3637-09-29 23:02 J	393281.39	393281.46	393281.54	0.2710	0.1985
Mercury	-3624-10-02 16:33 J	398032.09	398032.19	398032.29	0.2711	0.0637

Mercury	-3611-10-05 09:50 J	402782.81	402782.91	402783.02	0.2712	0.0708
Mercury	-3607-03-31 02:52 J	404055.57	404055.62	404055.68	0.2623	0.2427
Mercury	-3598-10-08 03:21 J	407533.57	407533.64	407533.71	0.2713	0.2040
Mercury	-3594-04-03 11:45 J	408806.83	408806.99	408807.15	0.2622	0.0499
Venus	-3594-05-20 10:48 J	408853.79	408853.95	408854.11	0.2620	0.0129
Mercury	-3591-10-01 03:50 J	410083.58	410083.66	410083.75	0.2710	0.1712
Mercury	-3578-10-03 21:21 J	414834.28	414834.39	414834.49	0.2711	0.0369
Mercury	-3565-10-05 14:38 J	419585.01	419585.11	419585.21	0.2712	0.0977
Mercury	-3561-03-31 09:50 J	420857.80	420857.91	420858.02	0.2623	0.1868
Mercury	-3552-10-08 08:09 J	424335.78	424335.84	424335.89	0.2713	0.2312
Mercury	-3548-04-03 18:28 J	425609.12	425609.27	425609.42	0.2621	0.1059
Mercury	-3545-10-01 08:38 J	426885.77	426885.86	426885.95	0.2710	0.1442
Mercury	-3532-10-04 02:09 J	431636.48	431636.59	431636.69	0.2711	0.0125
Mercury	-3519-10-06 19:26 J	436387.22	436387.31	436387.40	0.2712	0.1244
Mercury	-3515-04-01 16:48 J	437660.06	437660.20	437660.34	0.2623	0.1293
Mercury	-3512-09-29 19:55 J	438937.30	438937.33	438937.37	0.2709	0.2513
Mercury	-3506-10-09 12:43 J	441138.00	441138.03	441138.06	0.2713	0.2585
Mercury	-3502-04-05 01:26 J	442411.43	442411.56	442411.69	0.2621	0.1629
Mercury	-3499-10-02 13:26 J	443687.96	443688.06	443688.16	0.2710	0.1166
Mercury	-3486-10-05 06:43 J	448438.68	448438.78	448438.89	0.2711	0.0205
Mercury	-3473-10-07 00:14 J	453189.42	453189.51	453189.60	0.2712	0.1516
Mercury	-3469-04-01 23:31 J	454462.33	454462.48	454462.64	0.2622	0.0736
Mercury	-3466-10-01 00:43 J	455739.48	455739.53	455739.59	0.2709	0.2239
Venus	-3457-11-17 08:23 J	459074.70	459074.85	459075.01	0.2714	0.0549
Mercury	-3456-04-05 08:23 J	459213.76	459213.85	459213.94	0.2621	0.2205
Mercury	-3453-10-02 18:14 J	460490.16	460490.26	460490.36	0.2710	0.0891
Mercury	-3440-10-05 11:31 J	465240.88	465240.98	465241.09	0.2711	0.0454
Mercury	-3427-10-08 05:02 J	469991.63	469991.71	469991.79	0.2712	0.1788
Mercury	-3423-04-03 06:43 J	471264.61	471264.78	471264.94	0.2622	0.0167
Mercury	-3420-10-01 05:31 J	472541.66	472541.73	472541.81	0.2709	0.1967

Mercury	-3407-10-03 23:02 J	477292.35	477292.46	477292.56	0.2710	0.0622
Mercury	-3394-10-06 16:19 J	482043.08	482043.18	482043.28	0.2711	0.0725
Mercury	-3390-04-01 04:48 J	483315.66	483315.70	483315.75	0.2623	0.2513
Mercury	-3381-10-08 09:50 J	486793.84	486793.91	486793.97	0.2712	0.2065
Mercury	-3377-04-03 13:26 J	488066.90	488067.06	488067.22	0.2622	0.0409
Mercury	-3374-10-02 10:19 J	489343.85	489343.93	489344.01	0.2710	0.1695
Mercury	-3361-10-04 03:50 J	494094.55	494094.66	494094.76	0.2710	0.0366
Venus	-3351-05-20 14:09 J	497609.93	497610.09	497610.25	0.2619	0.0365
Mercury	-3348-10-06 21:07 J	498845.28	498845.38	498845.48	0.2711	0.0995
Mercury	-3344-04-01 11:45 J	500117.88	500117.99	500118.10	0.2623	0.1940
Mercury	-3335-10-09 14:23 J	503596.05	503596.10	503596.16	0.2712	0.2337
Mercury	-3331-04-04 20:23 J	504869.20	504869.35	504869.50	0.2622	0.0983
Mercury	-3328-10-02 15:07 J	506146.04	506146.13	506146.22	0.2710	0.1421
Mercury	-3315-10-05 08:23 J	510896.75	510896.85	510896.96	0.2711	0.0116
Mercury	-3302-10-08 01:55 J	515647.48	515647.58	515647.67	0.2711	0.1265
Mercury	-3298-04-02 18:28 J	516920.14	516920.27	516920.41	0.2623	0.1386
Mercury	-3295-10-01 02:23 J	518197.56	518197.60	518197.64	0.2709	0.2497
Mercury	-3289-10-09 19:11 J	520398.28	520398.30	520398.33	0.2712	0.2605
Mercury	-3285-04-05 03:21 J	521671.51	521671.64	521671.77	0.2622	0.1553
Mercury	-3282-10-03 19:55 J	522948.23	522948.33	522948.42	0.2710	0.1151
Mercury	-3269-10-05 13:12 J	527698.95	527699.05	527699.16	0.2711	0.0201
Mercury	-3256-10-08 06:43 J	532449.69	532449.78	532449.86	0.2712	0.1539
Mercury	-3252-04-03 01:26 J	533722.41	533722.56	533722.72	0.2623	0.0814
Mercury	-3249-10-01 07:12 J	534999.74	534999.80	534999.86	0.2709	0.2223
Mercury	-3239-04-06 10:04 J	538473.83	538473.92	538474.02	0.2622	0.2121
Mercury	-3236-10-04 00:43 J	539750.42	539750.53	539750.63	0.2710	0.0882
Mercury	-3223-10-06 18:00 J	544501.15	544501.25	544501.36	0.2711	0.0467
Venus	-3214-11-18 07:40 J	547830.66	547830.82	547830.98	0.2714	0.0315
Mercury	-3210-10-09 11:16 J	549251.90	549251.97	549252.05	0.2711	0.1815
Mercury	-3206-04-04 08:23 J	550524.68	550524.85	550525.01	0.2623	0.0258

Mercury	-3203-10-02 12:00 J	551801.93	551802.00	551802.07	0.2709	0.1949
Mercury	-3190-10-05 05:16 J	556552.62	556552.72	556552.83	0.2710	0.0611
Mercury	-3177-10-06 22:47 J	561303.35	561303.45	561303.55	0.2711	0.0742
Mercury	-3173-04-01 06:43 J	562575.76	562575.78	562575.80	0.2624	0.2593
Mercury	-3164-10-09 16:04 J	566054.11	566054.17	566054.24	0.2712	0.2082
Mercury	-3160-04-04 15:21 J	567326.98	567327.14	567327.30	0.2623	0.0329
Mercury	-3157-10-02 16:47 J	568604.11	568604.20	568604.28	0.2709	0.1677
Mercury	-3144-10-05 10:04 J	573354.82	573354.92	573355.03	0.2710	0.0337
Mercury	-3131-10-08 03:36 J	578105.55	578105.65	578105.75	0.2711	0.1015
Mercury	-3127-04-02 13:40 J	579377.97	579378.07	579378.17	0.2624	0.2027
Mercury	-3118-10-10 20:52 J	582856.32	582856.37	582856.42	0.2712	0.2354
Mercury	-3114-04-05 22:19 J	584129.27	584129.43	584129.58	0.2623	0.0898
Mercury	-3111-10-03 21:36 J	585406.31	585406.40	585406.49	0.2709	0.1404
Venus	-3108-05-20 17:16 J	586366.06	586366.22	586366.37	0.2619	0.0578
Mercury	-3098-10-06 14:52 J	590157.02	590157.12	590157.23	0.2710	0.0080
Mercury	-3085-10-08 08:23 J	594907.75	594907.85	594907.94	0.2711	0.1292
Mercury	-3081-04-02 20:23 J	596180.22	596180.35	596180.49	0.2624	0.1464
Mercury	-3078-10-02 08:52 J	597457.83	597457.87	597457.91	0.2708	0.2479
Mercury	-3072-10-11 01:40 J	599658.55	599658.57	599658.59	0.2712	0.2627
Mercury	-3068-04-06 05:02 J	600931.58	600931.71	600931.85	0.2622	0.1475
Mercury	-3065-10-04 02:23 J	602208.50	602208.60	602208.69	0.2709	0.1134
Mercury	-3052-10-06 19:40 J	606959.21	606959.32	606959.43	0.2710	0.0221
Mercury	-3039-10-09 12:57 J	611709.96	611710.04	611710.13	0.2711	0.1566
Mercury	-3035-04-04 03:21 J	612982.48	612982.64	612982.79	0.2624	0.0903
Mercury	-3032-10-02 13:40 J	614260.01	614260.07	614260.13	0.2708	0.2207
Mercury	-3022-04-07 12:00 J	617733.90	617734.00	617734.10	0.2622	0.2034
Mercury	-3019-10-05 06:57 J	619010.69	619010.79	619010.89	0.2709	0.0860
Mercury	-3006-10-08 00:28 J	623761.41	623761.52	623761.62	0.2710	0.0492

3RD MILLENNIUM BCE

This is a list of transits visible from Earth in the 3rd millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-2993-10-09 17:45 J		628512.17	628512.24	628512.32	0.2711	0.1835	
Mercury	-2989-04-04 10:19 J		629784.77	629784.93	629785.09	0.2623	0.0325	
Mercury	-2986-10-03 18:28 J		631062.19	631062.27	631062.34	0.2708	0.1938	
Mercury	-2976-04-07 18:57 J		634536.27	634536.29	634536.30	0.2622	0.2609	
Mercury	-2973-10-05 11:45 J		635812.89	635812.99	635813.10	0.2709	0.0585	
Venus	-2971-11-18 06:43 J		636586.62	636586.78	636586.94	0.2714	0.0072	
Mercury	-2960-10-08 05:16 J		640563.61	640563.72	640563.82	0.2710	0.0768	
Mercury	-2947-10-10 22:33 J		645314.37	645314.44	645314.51	0.2711	0.2105	
Mercury	-2943-04-05 17:02 J		646587.05	646587.21	646587.38	0.2623	0.0235	
Mercury	-2940-10-03 23:16 J		647864.38	647864.47	647864.55	0.2708	0.1661	
Mercury	-2927-10-06 16:33 J		652615.08	652615.19	652615.30	0.2709	0.0311	
Mercury	-2914-10-09 09:50 J		657365.82	657365.91	657366.01	0.2710	0.1043	
Mercury	-2910-04-03 15:21 J		658638.05	658638.14	658638.24	0.2625	0.2124	
Mercury	-2901-10-11 03:21 J		662116.59	662116.64	662116.69	0.2711	0.2379	
Mercury	-2897-04-06 00:00 J		663389.34	663389.50	663389.66	0.2623	0.0812	
Mercury	-2894-10-05 03:50 J		664666.57	664666.66	664666.76	0.2709	0.1387	
Mercury	-2881-10-06 21:21 J		669417.28	669417.39	669417.50	0.2710	0.0033	
Mercury	-2868-10-09 14:38 J		674168.02	674168.11	674168.21	0.2710	0.1313	
Venus	-2865-05-20 20:23 J		675122.20	675122.35	675122.50	0.2619	0.0818	
Mercury	-2864-04-03 22:19 J		675440.30	675440.43	675440.56	0.2624	0.1552	

Mercury	-2861-10-02 15:21 J	676718.09	676718.14	676718.18	0.2707	0.2460
Venus	-2857-05-18 13:26 J	678042.00	678042.06	678042.12	0.2618	0.2419
Mercury	-2855-10-12 08:09 J	678918.82	678918.84	678918.86	0.2711	0.2651
Mercury	-2851-04-07 06:43 J	680191.65	680191.78	680191.92	0.2623	0.1375
Mercury	-2848-10-05 08:38 J	681468.77	681468.86	681468.96	0.2709	0.1109
Mercury	-2835-10-08 02:09 J	686219.48	686219.59	686219.69	0.2710	0.0246
Mercury	-2822-10-10 19:26 J	690970.23	690970.31	690970.40	0.2710	0.1586
Mercury	-2818-04-05 05:16 J	692242.57	692242.72	692242.87	0.2624	0.0974
Mercury	-2815-10-03 20:09 J	693520.27	693520.34	693520.40	0.2707	0.2188
Mercury	-2805-04-07 13:55 J	696993.97	696994.08	696994.18	0.2623	0.1960
Mercury	-2802-10-06 13:26 J	698270.96	698271.06	698271.16	0.2709	0.0836
Mercury	-2789-10-08 06:57 J	703021.68	703021.79	703021.89	0.2710	0.0525
Mercury	-2776-10-11 00:14 J	707772.43	707772.51	707772.59	0.2711	0.1857
Mercury	-2772-04-05 12:00 J	709044.84	709045.00	709045.16	0.2624	0.0416
Mercury	-2769-10-04 00:43 J	710322.46	710322.53	710322.61	0.2708	0.1913
Mercury	-2759-04-08 20:38 J	713796.33	713796.36	713796.40	0.2623	0.2534
Mercury	-2756-10-06 18:14 J	715073.16	715073.26	715073.37	0.2709	0.0558
Mercury	-2743-10-09 11:31 J	719823.88	719823.98	719824.09	0.2710	0.0794
Mercury	-2730-10-12 05:02 J	724574.65	724574.71	724574.77	0.2711	0.2133
Venus	-2728-11-18 05:45 J	725342.59	725342.74	725342.90	0.2714	0.0202
Mercury	-2726-04-06 18:57 J	725847.13	725847.29	725847.45	0.2624	0.0159
Mercury	-2723-10-05 05:31 J	727124.65	727124.73	727124.82	0.2708	0.1637
Mercury	-2710-10-07 23:02 J	731875.35	731875.46	731875.57	0.2709	0.0287
Mercury	-2697-10-09 16:19 J	736626.09	736626.18	736626.28	0.2710	0.1066
Mercury	-2693-04-03 17:16 J	737898.13	737898.22	737898.31	0.2625	0.2199
Mercury	-2684-10-12 09:50 J	741376.86	741376.91	741376.95	0.2710	0.2404
Mercury	-2680-04-07 01:55 J	742649.42	742649.58	742649.73	0.2624	0.0727
Mercury	-2677-10-05 10:19 J	743926.84	743926.93	743927.02	0.2708	0.1362
Mercury	-2664-10-08 03:50 J	748677.55	748677.66	748677.76	0.2709	0.0090
Mercury	-2651-10-10 21:07 J	753428.29	753428.38	753428.47	0.2710	0.1338

Mercury	-2647-04-05 00:14 J	754700.38	754700.51	754700.64	0.2625	0.1632
Mercury	-2644-10-03 21:36 J	755978.36	755978.40	755978.45	0.2707	0.2441
Mercury	-2638-10-13 14:38 J	758179.09	758179.11	758179.12	0.2711	0.2679
Mercury	-2634-04-08 08:52 J	759451.72	759451.87	759452.01	0.2624	0.1308
Mercury	-2631-10-06 15:07 J	760729.03	760729.13	760729.23	0.2708	0.1089
Venus	-2622-05-21 23:45 J	763878.34	763878.49	763878.63	0.2619	0.1043
Mercury	-2618-10-09 08:38 J	765479.75	765479.86	765479.96	0.2709	0.0288
Venus	-2614-05-19 16:33 J	766798.11	766798.19	766798.28	0.2618	0.2195
Mercury	-2605-10-11 01:55 J	770230.49	770230.58	770230.67	0.2710	0.1608
Mercury	-2601-04-05 06:57 J	771502.64	771502.79	771502.94	0.2625	0.1070
Mercury	-2598-10-05 02:23 J	772780.54	772780.60	772780.67	0.2707	0.2165
Mercury	-2588-04-08 15:36 J	776254.04	776254.15	776254.26	0.2624	0.1872
Mercury	-2585-10-06 19:55 J	777531.23	777531.33	777531.43	0.2708	0.0810
Mercury	-2572-10-09 13:12 J	782281.95	782282.05	782282.16	0.2709	0.0545
Mercury	-2559-10-12 06:43 J	787032.70	787032.78	787032.85	0.2710	0.1881
Mercury	-2555-04-06 13:55 J	788304.92	788305.08	788305.24	0.2625	0.0499
Mercury	-2552-10-05 07:12 J	789582.73	789582.80	789582.88	0.2707	0.1887
Mercury	-2542-04-09 22:33 J	793056.38	793056.44	793056.49	0.2624	0.2449
Mercury	-2539-10-08 00:43 J	794333.42	794333.53	794333.63	0.2708	0.0539
Mercury	-2526-10-10 18:00 J	799084.15	799084.25	799084.35	0.2709	0.0817
Mercury	-2513-10-12 11:31 J	803834.91	803834.98	803835.04	0.2710	0.2156
Mercury	-2509-04-06 20:52 J	805107.20	805107.37	805107.53	0.2625	0.0091
Mercury	-2506-10-06 12:00 J	806384.91	806385.00	806385.09	0.2707	0.1615
Mercury	-2493-10-08 05:31 J	811135.62	811135.73	811135.83	0.2708	0.0278
Venus	-2485-11-18 04:33 J	814098.54	814098.69	814098.85	0.2715	0.0483
Mercury	-2480-10-10 22:47 J	815886.35	815886.45	815886.55	0.2709	0.1089
Mercury	-2476-04-04 19:12 J	817158.22	817158.30	817158.38	0.2626	0.2277
Mercury	-2473-10-03 23:16 J	818436.47	818436.47	818436.48	0.2706	0.2694
Mercury	-2467-10-13 16:04 J	820637.13	820637.17	820637.22	0.2710	0.2433
Mercury	-2463-04-08 03:50 J	821909.50	821909.66	821909.82	0.2625	0.0657

Mercury	-2460-10-06 16:47 J	823187.11	823187.20	823187.29	0.2707	0.1341
Mercury	-2447-10-09 10:19 J	827937.82	827937.93	827938.03	0.2708	0.0106
Mercury	-2434-10-12 03:36 J	832688.56	832688.65	832688.74	0.2709	0.1362
Mercury	-2430-04-06 02:09 J	833960.46	833960.59	833960.71	0.2626	0.1713
Mercury	-2427-10-05 04:04 J	835238.63	835238.67	835238.72	0.2706	0.2419
Mercury	-2421-10-13 20:52 J	837439.37	837439.37	837439.38	0.2710	0.2704
Mercury	-2417-04-08 10:33 J	838711.80	838711.94	838712.09	0.2624	0.1220
Mercury	-2414-10-07 21:36 J	839989.30	839989.40	839989.50	0.2707	0.1064
Mercury	-2401-10-09 14:52 J	844740.02	844740.12	844740.23	0.2708	0.0305
Mercury	-2388-10-12 08:23 J	849490.76	849490.85	849490.93	0.2709	0.1633
Mercury	-2384-04-06 08:52 J	850762.73	850762.87	850763.02	0.2626	0.1147
Mercury	-2381-10-05 08:52 J	852040.81	852040.87	852040.93	0.2706	0.2144
Venus	-2379-05-22 02:52 J	852634.48	852634.62	852634.76	0.2619	0.1262
Mercury	-2371-04-09 17:31 J	855514.11	855514.23	855514.35	0.2624	0.1796
Venus	-2371-05-19 19:55 J	855554.23	855554.33	855554.44	0.2618	0.1965
Mercury	-2368-10-08 02:23 J	856791.49	856791.60	856791.70	0.2707	0.0792
Mercury	-2355-10-10 19:40 J	861542.22	861542.32	861542.43	0.2708	0.0566
Mercury	-2342-10-13 13:12 J	866292.97	866293.05	866293.12	0.2709	0.1912
Mercury	-2338-04-07 15:50 J	867565.00	867565.16	867565.32	0.2625	0.0581
Mercury	-2335-10-06 13:40 J	868842.99	868843.07	868843.14	0.2706	0.1871
Mercury	-2325-04-10 00:14 J	872316.44	872316.51	872316.58	0.2624	0.2360
Mercury	-2322-10-09 06:57 J	873593.69	873593.79	873593.90	0.2707	0.0528
Mercury	-2309-10-11 00:28 J	878344.42	878344.52	878344.62	0.2708	0.0836
Mercury	-2296-10-13 17:45 J	883095.18	883095.24	883095.31	0.2709	0.2183
Mercury	-2292-04-07 22:33 J	884367.28	884367.44	884367.61	0.2625	0.0069
Mercury	-2289-10-06 18:28 J	885645.18	885645.27	885645.35	0.2706	0.1594
Mercury	-2276-10-09 11:45 J	890395.89	890395.99	890396.10	0.2708	0.0262
Mercury	-2263-10-12 05:16 J	895146.62	895146.72	895146.82	0.2709	0.1110
Mercury	-2259-04-05 21:07 J	896418.31	896418.38	896418.45	0.2627	0.2363
Mercury	-2256-10-05 05:45 J	897696.73	897696.74	897696.75	0.2705	0.2673

Mercury	-2250-10-14 22:33 J	899897.40	899897.44	899897.48	0.2709	0.2453
Mercury	-2246-04-09 05:31 J	901169.57	901169.73	901169.89	0.2625	0.0559
Mercury	-2243-10-07 23:16 J	902447.37	902447.47	902447.56	0.2707	0.1317
Venus	-2242-11-19 03:36 J	902854.50	902854.65	902854.81	0.2715	0.0743
Mercury	-2230-10-10 16:33 J	907198.09	907198.19	907198.30	0.2708	0.0074
Mercury	-2217-10-12 10:04 J	911948.82	911948.92	911949.01	0.2709	0.1386
Mercury	-2213-04-06 03:50 J	913220.55	913220.66	913220.78	0.2627	0.1796
Mercury	-2210-10-06 10:33 J	914498.89	914498.94	914498.98	0.2705	0.2399
Mercury	-2200-04-09 12:28 J	917971.87	917972.02	917972.16	0.2625	0.1136
Mercury	-2197-10-08 04:04 J	919249.57	919249.67	919249.77	0.2707	0.1042
Mercury	-2184-10-10 21:21 J	924000.28	924000.39	924000.50	0.2708	0.0315
Mercury	-2171-10-13 14:38 J	928751.03	928751.11	928751.20	0.2709	0.1668
Mercury	-2167-04-07 10:47 J	930022.81	930022.95	930023.09	0.2626	0.1228
Mercury	-2164-10-06 15:21 J	931301.07	931301.14	931301.20	0.2706	0.2123
Mercury	-2154-04-10 19:12 J	934774.18	934774.30	934774.42	0.2625	0.1709
Mercury	-2151-10-09 08:38 J	936051.76	936051.86	936051.97	0.2707	0.0773
Mercury	-2138-10-12 02:09 J	940802.48	940802.59	940802.69	0.2708	0.0590
Venus	-2136-05-22 06:14 J	941390.63	941390.76	941390.89	0.2618	0.1491
Venus	-2128-05-19 23:16 J	944310.35	944310.47	944310.59	0.2618	0.1737
Mercury	-2125-10-13 19:26 J	945553.24	945553.31	945553.39	0.2709	0.1939
Mercury	-2121-04-07 17:45 J	946825.08	946825.24	946825.39	0.2626	0.0659
Mercury	-2118-10-07 20:09 J	948103.26	948103.34	948103.41	0.2706	0.1848
Mercury	-2108-04-11 02:09 J	951576.51	951576.59	951576.67	0.2625	0.2286
Mercury	-2105-10-09 13:26 J	952853.96	952854.06	952854.17	0.2707	0.0494
Mercury	-2092-10-12 06:57 J	957604.69	957604.79	957604.89	0.2708	0.0864
Mercury	-2079-10-15 00:14 J	962355.45	962355.51	962355.57	0.2709	0.2209
Mercury	-2075-04-09 00:28 J	963627.35	963627.52	963627.68	0.2626	0.0100
Mercury	-2072-10-08 00:43 J	964905.45	964905.53	964905.62	0.2706	0.1575
Mercury	-2059-10-10 18:14 J	969656.15	969656.26	969656.37	0.2707	0.0213
Mercury	-2046-10-13 11:45 J	974406.89	974406.99	974407.08	0.2708	0.1142

Mercury	-2042-04-06 22:47 J	975678.40	975678.45	975678.51	0.2627	0.2451
Mercury	-2039-10-06 12:00 J	976956.99	976957.00	976957.02	0.2705	0.2659
Mercury	-2033-10-15 05:02 J	979157.67	979157.71	979157.75	0.2709	0.2481
Mercury	-2029-04-09 07:26 J	980429.64	980429.81	980429.97	0.2626	0.0483
Mercury	-2026-10-09 05:31 J	981707.64	981707.73	981707.83	0.2706	0.1297
Mercury	-2013-10-10 23:02 J	986458.35	986458.46	986458.57	0.2707	0.0067

2ND MILLENNIUM BCE

This is a list of transits visible from Earth in the 2nd millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-2000-10-13 16:19 J		991209.09	991209.18	991209.27	0.2708	0.1417	
Venus	-1999-11-19 02:23 J		991610.45	991610.60	991610.74	0.2715	0.1046	
Mercury	-1996-04-07 05:45 J		992480.63	992480.74	992480.85	0.2627	0.1887	
Mercury	-1993-10-06 16:47 J		993759.16	993759.20	993759.25	0.2705	0.2379	
Mercury	-1983-04-10 14:09 J		997231.94	997232.09	997232.24	0.2626	0.1045	
Mercury	-1980-10-09 10:19 J		998509.83	998509.93	998510.03	0.2706	0.1020	
Mercury	-1967-10-12 03:50 J		1003260.55	1003260.66	1003260.76	0.2707	0.0343	
Mercury	-1954-10-14 21:07 J		1008011.30	1008011.38	1008011.47	0.2708	0.1689	
Mercury	-1950-04-08 12:43 J		1009282.89	1009283.03	1009283.17	0.2627	0.1312	
Mercury	-1947-10-07 21:36 J		1010561.34	1010561.40	1010561.47	0.2705	0.2100	
Mercury	-1937-04-10 21:07 J		1014034.25	1014034.38	1014034.51	0.2626	0.1624	
Mercury	-1934-10-10 15:07 J		1015312.03	1015312.13	1015312.23	0.2706	0.0740	
Mercury	-1921-10-12 08:38 J		1020062.75	1020062.86	1020062.96	0.2707	0.0619	

Mercury	-1908-10-15 01:55 J	1024813.51	1024813.58	1024813.65	0.2708	0.1961
Mercury	-1904-04-08 19:26 J	1026085.15	1026085.31	1026085.47	0.2627	0.0746
Mercury	-1901-10-08 02:23 J	1027363.52	1027363.60	1027363.68	0.2705	0.1823
Venus	-1893-05-22 09:21 J	1030146.78	1030146.89	1030147.01	0.2618	0.1712
Mercury	-1891-04-12 03:50 J	1030836.58	1030836.66	1030836.75	0.2626	0.2201
Mercury	-1888-10-10 19:55 J	1032114.22	1032114.33	1032114.44	0.2706	0.0462
Venus	-1885-05-20 02:23 J	1033066.47	1033066.60	1033066.73	0.2618	0.1521
Mercury	-1875-10-13 13:26 J	1036864.95	1036865.06	1036865.16	0.2707	0.0898
Mercury	-1862-10-16 06:43 J	1041615.72	1041615.78	1041615.84	0.2708	0.2236
Mercury	-1858-04-10 02:23 J	1042887.44	1042887.60	1042887.76	0.2627	0.0171
Mercury	-1855-10-09 07:12 J	1044165.71	1044165.80	1044165.89	0.2705	0.1546
Mercury	-1842-10-12 00:43 J	1048916.42	1048916.53	1048916.64	0.2706	0.0189
Mercury	-1829-10-13 18:00 J	1053667.16	1053667.25	1053667.35	0.2707	0.1172
Mercury	-1825-04-07 00:43 J	1054938.49	1054938.53	1054938.58	0.2628	0.2526
Mercury	-1822-10-07 18:28 J	1056217.25	1056217.27	1056217.29	0.2704	0.2631
Mercury	-1816-10-16 11:31 J	1058417.94	1058417.98	1058418.01	0.2708	0.2514
Mercury	-1812-04-10 09:07 J	1059689.72	1059689.88	1059690.04	0.2627	0.0395
Mercury	-1809-10-09 12:00 J	1060967.90	1060968.00	1060968.09	0.2705	0.1270
Mercury	-1796-10-12 05:31 J	1065718.62	1065718.73	1065718.83	0.2706	0.0118
Mercury	-1783-10-14 22:47 J	1070469.36	1070469.45	1070469.54	0.2707	0.1444
Mercury	-1779-04-08 07:40 J	1071740.71	1071740.82	1071740.93	0.2628	0.1958
Mercury	-1776-10-07 23:16 J	1073019.42	1073019.47	1073019.52	0.2704	0.2354
Mercury	-1766-04-11 16:04 J	1076492.02	1076492.17	1076492.32	0.2626	0.0976
Venus	-1764-11-21 12:00 J	1077446.97	1077447.00	1077447.02	0.2715	0.2681
Mercury	-1763-10-10 16:47 J	1077770.10	1077770.20	1077770.30	0.2705	0.0993
Venus	-1756-11-19 01:12 J	1080366.41	1080366.55	1080366.69	0.2715	0.1324
Mercury	-1750-10-13 10:19 J	1082520.82	1082520.93	1082521.03	0.2706	0.0377
Mercury	-1737-10-15 03:35 J	1087271.57	1087271.65	1087271.73	0.2707	0.1713
Mercury	-1733-04-08 14:24 J	1088542.97	1088543.10	1088543.24	0.2628	0.1396
Mercury	-1730-10-09 04:04 J	1089821.60	1089821.67	1089821.74	0.2704	0.2077

Mercury	-1720-04-11 22:47 J	1093294.32	1093294.45	1093294.59	0.2626	0.1546
Mercury	-1717-10-10 21:35 J	1094572.29	1094572.40	1094572.50	0.2705	0.0716
Mercury	-1704-10-13 14:52 J	1099323.02	1099323.12	1099323.23	0.2706	0.0652
Mercury	-1691-10-16 08:24 J	1104073.78	1104073.85	1104073.92	0.2707	0.1990
Mercury	-1687-04-09 21:21 J	1105345.23	1105345.39	1105345.54	0.2628	0.0826
Mercury	-1684-10-09 08:52 J	1106623.79	1106623.87	1106623.95	0.2704	0.1798
Mercury	-1674-04-13 05:45 J	1110096.65	1110096.74	1110096.84	0.2626	0.2122
Mercury	-1671-10-12 02:24 J	1111374.49	1111374.60	1111374.70	0.2706	0.0440
Mercury	-1658-10-14 19:40 J	1116125.22	1116125.32	1116125.42	0.2707	0.0920
Venus	-1650-05-23 12:43 J	1118902.93	1118903.03	1118903.14	0.2618	0.1931
Mercury	-1645-10-16 13:12 J	1120875.99	1120876.05	1120876.10	0.2708	0.2267
Venus	-1642-05-21 06:00 J	1121822.61	1121822.75	1121822.89	0.2618	0.1283
Mercury	-1641-04-10 04:04 J	1122147.51	1122147.67	1122147.84	0.2627	0.0266
Mercury	-1638-10-10 13:40 J	1123425.98	1123426.07	1123426.16	0.2704	0.1518
Mercury	-1625-10-12 07:12 J	1128176.69	1128176.80	1128176.90	0.2706	0.0188
Mercury	-1612-10-15 00:28 J	1132927.43	1132927.52	1132927.62	0.2707	0.1194
Mercury	-1608-04-08 02:52 J	1134198.60	1134198.62	1134198.64	0.2629	0.2600
Mercury	-1605-10-08 00:57 J	1135477.51	1135477.54	1135477.56	0.2703	0.2604
Mercury	-1599-10-17 17:45 J	1137678.21	1137678.24	1137678.28	0.2708	0.2541
Mercury	-1595-04-11 11:02 J	1138949.80	1138949.96	1138950.12	0.2627	0.0327
Mercury	-1592-10-10 18:28 J	1140228.17	1140228.27	1140228.36	0.2704	0.1243
Mercury	-1579-10-13 12:00 J	1144978.89	1144979.00	1144979.10	0.2706	0.0166
Mercury	-1566-10-16 05:16 J	1149729.63	1149729.72	1149729.81	0.2707	0.1469
Mercury	-1562-04-09 09:35 J	1151000.80	1151000.90	1151001.00	0.2629	0.2031
Mercury	-1559-10-09 05:45 J	1152279.69	1152279.74	1152279.79	0.2703	0.2329
Mercury	-1549-04-11 18:00 J	1155752.09	1155752.25	1155752.40	0.2627	0.0893
Mercury	-1546-10-11 23:16 J	1157030.37	1157030.47	1157030.57	0.2705	0.0965
Mercury	-1533-10-13 16:33 J	1161781.09	1161781.19	1161781.30	0.2706	0.0403
Venus	-1521-11-21 10:47 J	1166202.88	1166202.95	1166203.02	0.2714	0.2417
Mercury	-1520-10-16 10:04 J	1166531.84	1166531.92	1166532.00	0.2707	0.1746

Mercury	-1516-04-09 16:19 J	1167803.05	1167803.18	1167803.32	0.2629	0.1473
Mercury	-1513-10-09 10:33 J	1169081.87	1169081.94	1169082.01	0.2703	0.2050
Venus	-1513-11-18 23:45 J	1169122.37	1169122.49	1169122.62	0.2714	0.1633
Mercury	-1503-04-13 00:43 J	1172554.40	1172554.53	1172554.67	0.2627	0.1470
Mercury	-1500-10-12 04:04 J	1173832.56	1173832.67	1173832.77	0.2705	0.0691
Mercury	-1487-10-14 21:21 J	1178583.29	1178583.39	1178583.50	0.2706	0.0672
Mercury	-1474-10-17 14:52 J	1183334.05	1183334.12	1183334.19	0.2707	0.2023
Mercury	-1470-04-10 23:16 J	1184605.32	1184605.47	1184605.62	0.2628	0.0902
Mercury	-1467-10-10 15:21 J	1185884.06	1185884.14	1185884.22	0.2704	0.1772
Mercury	-1457-04-13 07:26 J	1189356.71	1189356.81	1189356.92	0.2627	0.2035
Mercury	-1454-10-13 08:38 J	1190634.76	1190634.86	1190634.97	0.2705	0.0420
Mercury	-1441-10-15 02:09 J	1195385.49	1195385.59	1195385.69	0.2706	0.0947
Mercury	-1428-10-17 19:40 J	1200136.26	1200136.32	1200136.37	0.2707	0.2300
Mercury	-1424-04-11 06:00 J	1201407.59	1201407.75	1201407.92	0.2628	0.0335
Mercury	-1421-10-10 20:09 J	1202686.25	1202686.34	1202686.43	0.2704	0.1496
Mercury	-1411-04-14 14:24 J	1206159.10	1206159.10	1206159.11	0.2627	0.2619
Mercury	-1408-10-13 13:26 J	1207436.96	1207437.06	1207437.17	0.2705	0.0147
Venus	-1407-05-23 16:04 J	1207659.09	1207659.17	1207659.26	0.2618	0.2163
Venus	-1399-05-21 09:07 J	1210578.74	1210578.88	1210579.03	0.2618	0.1075
Mercury	-1395-10-16 06:57 J	1212187.69	1212187.79	1212187.88	0.2706	0.1225
Mercury	-1388-10-09 07:26 J	1214737.78	1214737.81	1214737.84	0.2703	0.2580
Mercury	-1382-10-19 00:14 J	1216938.48	1216938.51	1216938.54	0.2707	0.2572
Mercury	-1378-04-12 12:57 J	1218209.87	1218210.04	1218210.20	0.2628	0.0244
Mercury	-1375-10-12 00:57 J	1219488.44	1219488.54	1219488.63	0.2704	0.1219
Mercury	-1362-10-14 18:14 J	1224239.15	1224239.26	1224239.37	0.2705	0.0148
Mercury	-1349-10-16 11:45 J	1228989.90	1228989.99	1228990.08	0.2706	0.1500
Mercury	-1345-04-09 11:31 J	1230260.88	1230260.98	1230261.07	0.2629	0.2122
Mercury	-1342-10-10 12:14 J	1231539.95	1231540.01	1231540.06	0.2703	0.2302
Mercury	-1332-04-12 19:40 J	1235012.17	1235012.32	1235012.48	0.2628	0.0808
Mercury	-1329-10-12 05:31 J	1236290.63	1236290.73	1236290.83	0.2704	0.0940

Mercury	-1316-10-14 23:02 J	1241041.35	1241041.46	1241041.57	0.2705	0.0424
Mercury	-1303-10-17 16:33 J	1245792.11	1245792.19	1245792.27	0.2706	0.1779
Mercury	-1299-04-10 18:14 J	1247063.13	1247063.26	1247063.39	0.2629	0.1546
Mercury	-1296-10-10 17:02 J	1248342.14	1248342.21	1248342.28	0.2703	0.2026
Mercury	-1286-04-14 02:38 J	1251814.47	1251814.61	1251814.74	0.2628	0.1378
Mercury	-1283-10-13 10:19 J	1253092.83	1253092.93	1253093.04	0.2704	0.0659
Venus	-1278-11-22 09:21 J	1254958.80	1254958.89	1254958.99	0.2714	0.2108
Mercury	-1270-10-16 03:50 J	1257843.56	1257843.66	1257843.76	0.2705	0.0703
Venus	-1270-11-19 22:47 J	1257878.33	1257878.45	1257878.56	0.2714	0.1908
Mercury	-1257-10-17 21:21 J	1262594.32	1262594.39	1262594.45	0.2706	0.2058
Mercury	-1253-04-11 01:12 J	1263865.40	1263865.55	1263865.70	0.2629	0.0973
Mercury	-1250-10-11 21:35 J	1265144.32	1265144.40	1265144.49	0.2703	0.1745
Mercury	-1240-04-14 09:35 J	1268616.79	1268616.90	1268617.00	0.2628	0.1970
Mercury	-1237-10-13 15:07 J	1269895.02	1269895.13	1269895.24	0.2704	0.0382
Mercury	-1224-10-16 08:38 J	1274645.76	1274645.86	1274645.96	0.2705	0.0981
Mercury	-1211-10-19 01:55 J	1279396.53	1279396.58	1279396.64	0.2706	0.2332
Mercury	-1207-04-12 07:55 J	1280667.67	1280667.83	1280667.99	0.2629	0.0409
Mercury	-1204-10-12 02:24 J	1281946.51	1281946.60	1281946.69	0.2703	0.1466
Mercury	-1194-04-15 16:19 J	1285419.14	1285419.18	1285419.22	0.2628	0.2540
Mercury	-1191-10-14 19:55 J	1286697.22	1286697.33	1286697.44	0.2704	0.0099
Mercury	-1178-10-17 13:26 J	1291447.96	1291448.06	1291448.15	0.2705	0.1257
Mercury	-1171-10-10 13:40 J	1293998.04	1293998.07	1293998.10	0.2702	0.2555
Mercury	-1165-10-19 06:43 J	1296198.76	1296198.78	1296198.81	0.2706	0.2606
Venus	-1164-05-23 19:26 J	1296415.25	1296415.31	1296415.38	0.2619	0.2380
Mercury	-1161-04-12 14:52 J	1297469.95	1297470.12	1297470.28	0.2629	0.0167
Mercury	-1158-10-13 07:12 J	1298748.70	1298748.80	1298748.90	0.2703	0.1184
Venus	-1156-05-21 12:43 J	1299334.88	1299335.03	1299335.19	0.2619	0.0831
Mercury	-1145-10-15 00:43 J	1303499.42	1303499.53	1303499.64	0.2704	0.0178
Mercury	-1132-10-17 18:14 J	1308250.17	1308250.26	1308250.34	0.2705	0.1537
Mercury	-1128-04-10 13:26 J	1309520.97	1309521.06	1309521.15	0.2630	0.2185

Mercury	-1125-10-10 18:28 J	1310800.22	1310800.27	1310800.33	0.2702	0.2276
Mercury	-1115-04-13 21:35 J	1314272.24	1314272.40	1314272.56	0.2629	0.0731
Mercury	-1112-10-13 12:00 J	1315550.90	1315551.00	1315551.10	0.2703	0.0908
Mercury	-1099-10-16 05:31 J	1320301.62	1320301.73	1320301.83	0.2704	0.0458
Mercury	-1086-10-18 22:47 J	1325052.38	1325052.45	1325052.53	0.2705	0.1814
Mercury	-1082-04-11 20:09 J	1326323.22	1326323.34	1326323.47	0.2630	0.1625
Mercury	-1079-10-11 23:16 J	1327602.40	1327602.47	1327602.54	0.2702	0.1992
Mercury	-1069-04-14 04:33 J	1331074.55	1331074.69	1331074.83	0.2628	0.1313
Mercury	-1066-10-14 16:47 J	1332353.10	1332353.20	1332353.30	0.2703	0.0629
Mercury	-1053-10-16 10:19 J	1337103.82	1337103.93	1337104.03	0.2704	0.0734
Mercury	-1040-10-19 03:35 J	1341854.59	1341854.65	1341854.72	0.2705	0.2086
Mercury	-1036-04-12 03:07 J	1343125.48	1343125.63	1343125.78	0.2630	0.1057
Venus	-1035-11-22 08:24 J	1343714.74	1343714.85	1343714.97	0.2714	0.1843
Mercury	-1033-10-12 04:04 J	1344404.59	1344404.67	1344404.75	0.2702	0.1713
Venus	-1027-11-19 21:21 J	1346634.30	1346634.39	1346634.48	0.2714	0.2219
Mercury	-1023-04-15 11:16 J	1347876.86	1347876.97	1347877.08	0.2628	0.1878
Mercury	-1020-10-14 21:35 J	1349155.29	1349155.40	1349155.51	0.2703	0.0345
Mercury	-1007-10-17 15:07 J	1353906.03	1353906.13	1353906.23	0.2705	0.1016

1ST MILLENNIUM BCE

This is a list of transits visible from Earth in the 1st millennium BCE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	-994-10-20 08:24 J		1358656.80	1358656.85	1358656.90	0.2706	0.2360	

Mercury	-990-04-13 09:50 J	1359927.75	1359927.91	1359928.07	0.2630	0.0488
Mercury	-987-10-13 08:52 J	1361206.78	1361206.87	1361206.96	0.2702	0.1431
Mercury	-977-04-15 18:14 J	1364679.20	1364679.26	1364679.31	0.2628	0.2462
Mercury	-974-10-16 02:24 J	1365957.49	1365957.60	1365957.71	0.2703	0.0066
Mercury	-961-10-17 19:55 J	1370708.23	1370708.33	1370708.42	0.2705	0.1296
Mercury	-954-10-11 20:09 J	1373258.30	1373258.34	1373258.37	0.2701	0.2524
Mercury	-948-10-20 13:12 J	1375459.03	1375459.05	1375459.07	0.2706	0.2641
Mercury	-944-04-13 16:47 J	1376730.03	1376730.20	1376730.36	0.2630	0.0097
Mercury	-941-10-13 13:40 J	1378008.97	1378009.07	1378009.17	0.2702	0.1154
Mercury	-928-10-16 07:12 J	1382759.69	1382759.80	1382759.91	0.2704	0.0218
Venus	-921-05-23 23:02 J	1385171.45	1385171.46	1385171.47	0.2619	0.2612
Mercury	-915-10-19 00:28 J	1387510.44	1387510.52	1387510.61	0.2705	0.1571
Venus	-913-05-21 16:04 J	1388091.02	1388091.17	1388091.33	0.2619	0.0624
Mercury	-911-04-11 15:21 J	1388781.06	1388781.14	1388781.22	0.2631	0.2257
Mercury	-908-10-12 00:57 J	1390060.48	1390060.54	1390060.60	0.2701	0.2242
Mercury	-898-04-14 23:31 J	1393532.33	1393532.48	1393532.64	0.2629	0.0671
Mercury	-895-10-14 18:28 J	1394811.17	1394811.27	1394811.37	0.2702	0.0873
Mercury	-882-10-17 12:00 J	1399561.89	1399562.00	1399562.10	0.2704	0.0493
Mercury	-869-10-19 05:16 J	1404312.64	1404312.72	1404312.80	0.2705	0.1845
Mercury	-865-04-11 22:19 J	1405583.30	1405583.43	1405583.55	0.2631	0.1692
Mercury	-862-10-13 05:45 J	1406862.67	1406862.74	1406862.81	0.2701	0.1963
Mercury	-852-04-15 06:14 J	1410334.62	1410334.76	1410334.91	0.2629	0.1234
Mercury	-849-10-14 23:16 J	1411613.36	1411613.47	1411613.57	0.2703	0.0595
Mercury	-836-10-17 16:33 J	1416364.09	1416364.19	1416364.30	0.2704	0.0779
Mercury	-823-10-20 10:04 J	1421114.86	1421114.92	1421114.98	0.2705	0.2118
Mercury	-819-04-13 05:02 J	1422385.56	1422385.71	1422385.85	0.2631	0.1130
Mercury	-816-10-13 10:33 J	1423664.85	1423664.94	1423665.02	0.2701	0.1685
Mercury	-806-04-16 13:12 J	1427136.93	1427137.05	1427137.17	0.2629	0.1811
Mercury	-803-10-16 04:04 J	1428415.56	1428415.67	1428415.77	0.2703	0.0320
Venus	-792-11-22 06:57 J	1432470.66	1432470.79	1432470.92	0.2714	0.1531

Mercury	-790-10-18 21:21 J	1433166.29	1433166.39	1433166.49	0.2704	0.1049
Venus	-784-11-19 20:09 J	1435390.28	1435390.34	1435390.40	0.2714	0.2504
Mercury	-777-10-20 14:52 J	1437917.07	1437917.12	1437917.17	0.2705	0.2400
Mercury	-773-04-13 11:45 J	1439187.83	1439187.99	1439188.15	0.2630	0.0560
Mercury	-770-10-14 15:21 J	1440467.05	1440467.14	1440467.23	0.2702	0.1403
Mercury	-760-04-16 19:55 J	1443939.27	1443939.33	1443939.40	0.2629	0.2380
Mercury	-757-10-16 08:52 J	1445217.76	1445217.87	1445217.97	0.2703	0.0114
Mercury	-744-10-19 02:09 J	1449968.50	1449968.59	1449968.68	0.2704	0.1324
Mercury	-737-10-12 02:38 J	1452518.57	1452518.61	1452518.65	0.2700	0.2491
Mercury	-731-10-21 19:40 J	1454719.31	1454719.32	1454719.33	0.2705	0.2675
Mercury	-727-04-14 18:43 J	1455990.11	1455990.28	1455990.44	0.2630	0.0051
Mercury	-724-10-14 20:09 J	1457269.24	1457269.34	1457269.44	0.2702	0.1120
Mercury	-711-10-17 13:26 J	1462019.96	1462020.06	1462020.17	0.2703	0.0266
Mercury	-698-10-20 06:57 J	1466770.71	1466770.79	1466770.88	0.2704	0.1600
Mercury	-694-04-12 17:31 J	1468041.15	1468041.23	1468041.30	0.2632	0.2326
Mercury	-691-10-13 07:26 J	1469320.75	1469320.81	1469320.87	0.2700	0.2210
Mercury	-681-04-15 01:26 J	1472792.40	1472792.56	1472792.72	0.2630	0.0582
Mercury	-678-10-16 00:57 J	1474071.43	1474071.54	1474071.64	0.2702	0.0843
Venus	-670-05-22 19:40 J	1476847.16	1476847.32	1476847.48	0.2619	0.0387
Mercury	-665-10-17 18:14 J	1478822.16	1478822.26	1478822.37	0.2703	0.0532
Mercury	-652-10-20 11:45 J	1483572.91	1483572.99	1483573.07	0.2704	0.1879
Mercury	-648-04-13 00:14 J	1484843.39	1484843.51	1484843.63	0.2632	0.1763
Mercury	-645-10-13 12:14 J	1486122.93	1486123.01	1486123.08	0.2700	0.1935
Mercury	-635-04-16 08:24 J	1489594.70	1489594.85	1489594.99	0.2630	0.1161
Mercury	-632-10-16 05:45 J	1490873.63	1490873.74	1490873.84	0.2702	0.0571
Mercury	-619-10-18 23:02 J	1495624.36	1495624.46	1495624.57	0.2703	0.0805
Mercury	-606-10-21 16:33 J	1500375.13	1500375.19	1500375.25	0.2704	0.2159
Mercury	-602-04-14 06:57 J	1501645.65	1501645.79	1501645.93	0.2631	0.1197
Mercury	-599-10-14 17:02 J	1502925.12	1502925.21	1502925.29	0.2701	0.1654
Mercury	-589-04-16 15:07 J	1506397.01	1506397.13	1506397.25	0.2630	0.1732

Mercury	-586-10-17 10:19 J	1507675.83	1507675.93	1507676.04	0.2702	0.0295
Mercury	-573-10-19 03:50 J	1512426.56	1512426.66	1512426.76	0.2703	0.1080
Mercury	-560-10-21 21:21 J	1517177.34	1517177.39	1517177.43	0.2704	0.2435
Mercury	-556-04-14 13:40 J	1518447.92	1518448.07	1518448.23	0.2631	0.0631
Mercury	-553-10-14 21:35 J	1519727.31	1519727.40	1519727.50	0.2701	0.1372
Venus	-549-11-22 06:00 J	1521226.60	1521226.75	1521226.89	0.2713	0.1250
Mercury	-543-04-17 21:50 J	1523199.34	1523199.41	1523199.49	0.2630	0.2313
Mercury	-540-10-17 15:07 J	1524478.02	1524478.13	1524478.24	0.2702	0.0052
Mercury	-527-10-20 08:38 J	1529228.77	1529228.86	1529228.95	0.2703	0.1358
Mercury	-520-10-13 08:52 J	1531778.83	1531778.87	1531778.92	0.2699	0.2464
Mercury	-510-04-15 20:38 J	1535250.19	1535250.36	1535250.52	0.2631	0.0083
Mercury	-507-10-16 02:24 J	1536529.50	1536529.60	1536529.70	0.2701	0.1092
Mercury	-494-10-18 19:55 J	1541280.22	1541280.33	1541280.44	0.2702	0.0281
Mercury	-481-10-20 13:26 J	1546030.98	1546031.06	1546031.14	0.2703	0.1639
Mercury	-477-04-12 19:12 J	1547301.24	1547301.30	1547301.37	0.2633	0.2407
Mercury	-474-10-14 13:40 J	1548581.01	1548581.07	1548581.13	0.2700	0.2183
Mercury	-464-04-16 03:21 J	1552052.48	1552052.64	1552052.80	0.2631	0.0508
Mercury	-461-10-16 07:12 J	1553331.70	1553331.80	1553331.90	0.2701	0.0811
Mercury	-448-10-19 00:43 J	1558082.43	1558082.53	1558082.64	0.2702	0.0558
Mercury	-435-10-21 18:14 J	1562833.18	1562833.26	1562833.33	0.2703	0.1915
Mercury	-431-04-14 02:09 J	1564103.47	1564103.59	1564103.70	0.2632	0.1840
Mercury	-428-10-14 18:28 J	1565383.20	1565383.27	1565383.35	0.2700	0.1900
Venus	-427-05-22 23:02 J	1565603.30	1565603.46	1565603.62	0.2620	0.0179
Mercury	-418-04-17 10:04 J	1568854.77	1568854.92	1568855.07	0.2631	0.1074
Mercury	-415-10-17 12:00 J	1570133.90	1570134.00	1570134.11	0.2701	0.0530
Mercury	-402-10-20 05:31 J	1574884.63	1574884.73	1574884.83	0.2702	0.0835
Mercury	-389-10-21 23:02 J	1579635.40	1579635.46	1579635.52	0.2703	0.2194
Mercury	-385-04-14 08:52 J	1580905.73	1580905.87	1580906.01	0.2632	0.1273
Mercury	-382-10-15 23:16 J	1582185.39	1582185.47	1582185.56	0.2700	0.1617
Mercury	-372-04-17 17:02 J	1585657.08	1585657.21	1585657.33	0.2631	0.1654

Mercury	-369-10-17 16:47 J	1586936.09	1586936.20	1586936.31	0.2701	0.0248
Mercury	-356-10-20 10:19 J	1591686.83	1591686.93	1591687.03	0.2702	0.1116
Mercury	-343-10-23 03:35 J	1596437.61	1596437.65	1596437.70	0.2704	0.2470
Mercury	-339-04-15 15:50 J	1597708.00	1597708.16	1597708.31	0.2632	0.0706
Mercury	-336-10-16 04:04 J	1598987.58	1598987.67	1598987.76	0.2700	0.1337
Mercury	-326-04-18 23:45 J	1602459.40	1602459.49	1602459.57	0.2631	0.2226
Mercury	-323-10-18 21:35 J	1603738.29	1603738.40	1603738.51	0.2701	0.0042
Mercury	-310-10-21 15:07 J	1608489.04	1608489.13	1608489.22	0.2702	0.1398
Venus	-306-11-23 04:19 J	1609982.53	1609982.68	1609982.83	0.2713	0.0926
Mercury	-303-10-14 15:21 J	1611039.09	1611039.14	1611039.18	0.2699	0.2433
Mercury	-293-04-15 22:33 J	1614510.28	1614510.44	1614510.60	0.2632	0.0143
Mercury	-290-10-17 08:52 J	1615789.77	1615789.87	1615789.97	0.2700	0.1057
Mercury	-277-10-19 02:24 J	1620540.49	1620540.60	1620540.71	0.2701	0.0315
Mercury	-264-10-21 19:55 J	1625291.24	1625291.33	1625291.41	0.2703	0.1675
Mercury	-260-04-13 21:21 J	1626561.34	1626561.39	1626561.45	0.2633	0.2465
Mercury	-257-10-14 20:09 J	1627841.27	1627841.34	1627841.40	0.2699	0.2153
Mercury	-247-04-17 05:16 J	1631312.56	1631312.72	1631312.88	0.2632	0.0431
Mercury	-244-10-17 13:40 J	1632591.97	1632592.07	1632592.17	0.2700	0.0774
Mercury	-231-10-20 07:12 J	1637342.69	1637342.80	1637342.90	0.2701	0.0593
Mercury	-218-10-23 00:28 J	1642093.45	1642093.52	1642093.60	0.2703	0.1956
Mercury	-214-04-15 04:04 J	1643363.56	1643363.67	1643363.78	0.2633	0.1910
Mercury	-211-10-16 00:57 J	1644643.46	1644643.54	1644643.61	0.2699	0.1868
Mercury	-201-04-17 12:00 J	1648114.85	1648115.00	1648115.15	0.2632	0.1013
Mercury	-198-10-18 18:28 J	1649394.16	1649394.27	1649394.38	0.2700	0.0495
Mercury	-185-10-20 12:00 J	1654144.90	1654145.00	1654145.10	0.2702	0.0875
Venus	-184-05-23 02:24 J	1654359.44	1654359.60	1654359.76	0.2620	0.0025
Mercury	-172-10-23 05:16 J	1658895.66	1658895.72	1658895.78	0.2703	0.2229
Mercury	-168-04-15 10:47 J	1660165.82	1660165.95	1660166.09	0.2633	0.1347
Mercury	-165-10-16 05:45 J	1661445.65	1661445.74	1661445.82	0.2699	0.1587
Mercury	-155-04-18 18:43 J	1664917.15	1664917.28	1664917.41	0.2631	0.1574

Mercury	-152-10-18 23:16 J	1666196.36	1666196.47	1666196.58	0.2700	0.0215
Mercury	-139-10-21 16:47 J	1670947.10	1670947.20	1670947.29	0.2702	0.1156
Mercury	-132-10-14 16:47 J	1673497.20	1673497.20	1673497.21	0.2698	0.2684
Mercury	-126-10-24 10:04 J	1675697.88	1675697.92	1675697.96	0.2703	0.2507
Mercury	-122-04-16 17:31 J	1676968.08	1676968.23	1676968.39	0.2633	0.0788
Mercury	-119-10-17 10:33 J	1678247.84	1678247.94	1678248.03	0.2699	0.1305
Mercury	-109-04-19 01:40 J	1681719.48	1681719.57	1681719.66	0.2631	0.2150
Mercury	-106-10-20 04:04 J	1682998.56	1682998.67	1682998.78	0.2701	0.0088
Mercury	-93-10-21 21:21 J	1687749.30	1687749.39	1687749.49	0.2702	0.1434
Mercury	-86-10-15 21:50 J	1690299.36	1690299.41	1690299.45	0.2698	0.2403
Mercury	-76-04-17 00:28 J	1693770.35	1693770.52	1693770.68	0.2633	0.0227
Mercury	-73-10-17 15:21 J	1695050.04	1695050.14	1695050.24	0.2699	0.1021
Venus	-63-11-23 03:07 J	1698738.48	1698738.63	1698738.79	0.2713	0.0633
Mercury	-60-10-20 08:52 J	1699800.76	1699800.87	1699800.97	0.2701	0.0363
Mercury	-47-10-23 02:09 J	1704551.51	1704551.59	1704551.68	0.2702	0.1712
Mercury	-43-04-14 23:16 J	1705821.43	1705821.47	1705821.51	0.2634	0.2541
Mercury	-40-10-16 02:38 J	1707101.54	1707101.61	1707101.67	0.2698	0.2117
Mercury	-30-04-18 07:12 J	1710572.64	1710572.80	1710572.96	0.2633	0.0366
Mercury	-27-10-18 20:09 J	1711852.23	1711852.34	1711852.44	0.2699	0.0741
Mercury	-14-10-21 13:40 J	1716602.96	1716603.07	1716603.17	0.2701	0.0640
Mercury	-1-10-23 06:57 J	1721353.72	1721353.79	1721353.86	0.2702	0.1992